

ARL STATISTICS

1983-84

**A COMPILATION OF STATISTICS
FROM THE ONE HUNDRED AND SEVENTEEN MEMBERS OF THE
ASSOCIATION OF RESEARCH LIBRARIES**

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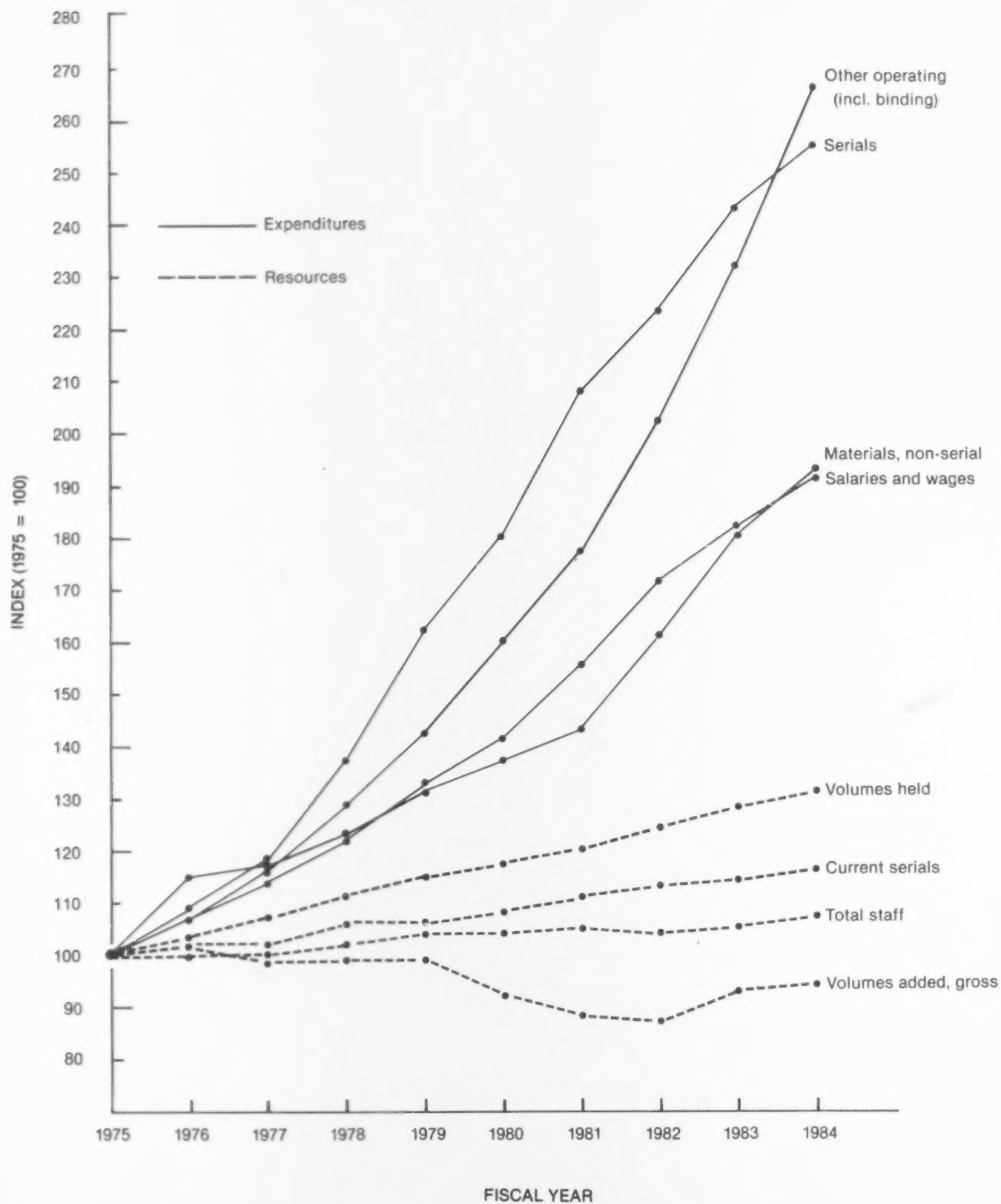
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TABLE OF CONTENTS

	<u>Page</u>
I. Introduction	5
II. Guide to Library Code Numbers	7a
III. ARL Library Data Tables	8
Totals	18
IV. Analysis of Selected Variables	20
V. Ph.D. and Enrollment Statistics	21
VI. The ARL Library Index	25
VII. Summary of Rank Order Tables of University Libraries	28
VIII. Rank Order Tables of University Libraries	
1 - Volumes in Library	33
2 - Volumes Added (Gross)	34
3 - Microform Holdings	35
4 - Current Serials	36
5 - Professional Staff (FTE)	37
6 - Nonprofessional Staff (FTE)	38
7 - Total Staff (FTE)	39
8 - Materials Expenditures	40
9 - Materials and Binding Expenditures	41
10 - Salaries and Wages Expenditures	42
11 - Total Operating Expenditures	43
12 - Total Items Lent	44
13 - Total Items Borrowed	45
14 - Current Serials Expenditures	46
IX. ARL Statistics Questionnaire, 1983-84	47
X. Footnotes to ARL Statistics 1983-84	53
XI. ARL Statistical Publications	70

AGGREGATE EXPENDITURES AND RESOURCES OF 84 ARL UNIVERSITY LIBRARIES, FISCAL YEARS 1975-1984



INTRODUCTION

The 1983-84 ARL Statistics presents data collected from the 117 research libraries that were members of the Association during the 1983-84 fiscal year. The University of Waterloo joined ARL in 1983-84, and the John Crerar Library relinquished its membership. Waterloo's data are included in the Statistics for the first time this year. The ARL membership now consists of 105 university libraries and 12 public, governmental, and private research collections. A complete list of ARL members is provided in the "Guide to Library Code Numbers" on page 7a.

The tables in the Statistics describe research library collections, interlibrary loans, expenditures, and staffing in fiscal 1984, as well as university enrollments, Ph.D.'s awarded, and Ph.D. fields. Changes in these measures during the past ten years were examined through an analysis of the data from 84 ARL university libraries for the fiscal years 1974-75 through 1983-84.¹ Some of the results of this analysis are displayed in the graph on the opposite page, where the aggregate figures for the 84 libraries are converted to index numbers with 1974-75 equal to 100. Highlights of the analysis are described in the following paragraphs.

Expenditures: Total library expenditures include three major categories: expenditures for materials (comprising expenditures for non-serials, including monographs, and expenditures for current serials); total salaries and wages; and other operating expenditures (including binding). Total expenditures in the 84 libraries have risen 109% since 1974-75, from approximately one-third of a billion dollars to three-quarters of a billion. The categories of total expenditures have increased by different amounts: monographs and other non-serial materials, 93%; current serials, 155%; salaries and wages, 92%; and other operating expenditures (including binding), 166%. Previous introductions to the Statistics have lamented the extraordinary increases in expenditures for serials during the late 1970's and 1980's. The increases now seem to have peaked in 1981, and for the past three years have returned to the more moderate levels of the mid-1970's. This year's increase of 5.1% is the lowest since at least fiscal 1975. What has become more striking than the increases in serials expenditures are the increases in other operating expenditures. Since 1975 the aggregate of these expenditures for the 84 libraries has been rising at 11.6% per year. If maintained, this rate of increase would mean that other operating expenditures will double approximately every six to seven years (as indeed these expenditures doubled between 1978 and 1984). Why the costs of operations are rising so sharply is not easy to determine from the ARL data. Other operating expenditures are a catch-all category that includes everything that is not materials and not salaries and wages. To what extent do outlays for automation, for example, contribute to the increase in other operating costs? This is a question that would require data not currently available in the ARL Statistics.

The ratios of the major expenditure categories to total expenditures have changed slightly but steadily over the ten years. Salaries and wages, for example, were 58% of total expenditures in 1974-75, but by 1983-84 had declined to 53%. The major expenditure ratios are:

	1975	1984
Library materials	31%	33%
Total salaries and wages	58%	53%
Other operating (incl. binding)	11%	14%

These figures indicate a modest shift in allocations from salaries and wages to materials and operations. This shift held true not only in the aggregate but in individual libraries also. 67 of the 84 libraries spent a lower percentage of total expenditures on salaries and wages in 1984 than in 1975; 65 spent a higher percentage on other operating expenditures; and 56 spent a higher percentage on materials. Another change worth noting is in the ratio of serials expenditures to expenditures for all library materials. In 1974-75 serials accounted for about 48% of materials expenditures, rising to 58% in 1981, but declining during the past three years to 55%.

Collections: Annual decreases in gross volumes added have been a troubling characteristic of ARL libraries since the mid-1970's. By 1982 the 84 libraries were adding (that is, cataloging) about one million fewer volumes than they added in 1975. During each of the past two years, however, the number of added volumes has increased slightly. 55 libraries, or about two-thirds, cataloged more volumes in 1984 than in 1982. During the ten years current serial subscriptions rose by about 16%. Volumes held in the 84 libraries increased by some six million volumes per year, for a ten-year increase of 31%.

Personnel: Total staff in the 84 libraries (FTE professionals plus nonprofessionals plus student assistants) increased by 7%, an increase of 1,758 FTE's. Most of this increase was in student assistants, as shown in the following table:

	1975	1984	% Increase
Professionals	6,600	6,751	2%
Nonprofessionals	13,215	13,680	4%
Student assistants	4,884	6,026	23%
Total staff	24,699	26,457	7%

Of the increment of 1,758 FTE's, 9% were professionals, 26% nonprofessionals, and 65% student assistants. Consequently, the ten years may be thought of as a period in which professional and nonprofessional staffing increased slightly, while the numbers of student assistants grew perceptibly. About two-thirds of the libraries each had more professionals and more nonprofessionals in 1984 than in 1975; and three-quarters had more student assistants.

An effect of these trends is that staffing ratios also changed slightly. As percentages of total staff, the numbers of professionals decreased by 1% and nonprofessionals by 2%, while student assistants increased by 3%. As a result, nonprofessionals now account for about half of research library staffing, and professionals and student assistants each about one-quarter.

Relations among expenditures and resources: The analysis permits some conclusions about changes in the ratios of various categories of expenditures and resources. For example, the ratio of salaries and wages to total staff increased from 1975 to 1984, while the ratio of total staff to volumes held decreased. Some of the more interesting increases or decreases since 1975 are:

Other operating expenditures per volume held	+112%
Total expenditures per volumes held	+ 59%
Total staff per volumes held	- 18%
Expenditures for materials per volumes added, gross	+140%
Other operating expenditures per volumes added, gross	+188%
Total expenditures per volumes added, gross	+124%
Total staff per volumes added, gross	+ 14%
Total salaries and wages per total staff	+ 78%

The preceding analysis is based on aggregate data. Those using the ARL Statistics to compare individual institutions will need to consult the symbols indicated in the "ARL Library Data Table" and the "Footnotes." Although definitions used in the Statistics questionnaire are aimed at achieving consistency, variant reporting practices do exist among ARL libraries. For example, the majority of ARL libraries include government documents in their count of serials subscriptions, but some do not. Some ARL libraries catalog government documents and report them in their volume count; others do not. Symbols are used to indicate which ARL libraries include law and medical libraries in their reports. Separate counts of the holdings of law school libraries are published each year in the spring issue of Law Library Journal. Similar statistics for U.S. and Canadian medical school libraries are published annually by the Association of Academic Health Sciences Library Directors. To aid comparability, expenditures of Canadian libraries are expressed in U.S. dollars in the ARL Statistics; the exchange rate used for 1983-84 is 1.2548 Canadian dollars to one U.S. dollar.²

The rank order tables and index scores presented in this publication are not intended to imply qualitative evaluations of the institutions described. In comparing any individual library to ARL medians or to other ARL members, one must always make evaluations within the context of local goals and characteristics.

Kendon L. Stubbs
University of Virginia Library
January 20, 1985

References:

1. The 84 libraries in the analysis are those that have been ARL members since 1974-75 and that lacked no more than one data value for the ten years. In this analysis Canadian expenditures were converted to U.S. dollar equivalents using the appropriate rate for each year.
2. The rate used is the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1983-June 1984. Expenditures as reported in Canadian dollars are given in the "Footnotes" to the ARL Statistics.

GUIDE TO LIBRARY CODE NUMBERS

GUIDE TO LIBRARY CODE NUMBERS

The institutions listed below are the 117 institutions that were members of the Association of Research Libraries in 1984. Each has been assigned a code number for use on the data tables on pages 8-17 in place of the names of the institutions. (See columns labeled "Library Code No." to the left of columns 1 and 12). Numbers 1-105 have been used to designate the 105 university library members of the Association. Numbers 106-117 designate the 12 nonuniversity members.

- | | | |
|---------------------------|------------------------|---|
| 1. Alabama | 40. Iowa | 79. South Carolina |
| 2. Alberta | 41. Iowa State | 80. Southern California |
| 3. Arizona | 42. Johns Hopkins | 81. Southern Illinois |
| 4. Arizona State | 43. Kansas | 82. Stanford |
| 5. Boston | 44. Kent State | 83. SUNY-Albany |
| 6. Brigham Young | 45. Kentucky | 84. SUNY-Buffalo |
| 7. British Columbia | 46. Louisiana State | 85. SUNY-Stony Brook |
| 8. Brown | 47. McGill | 86. Syracuse |
| 9. Calif., Berkeley | 48. McMaster | 87. Temple |
| 10. Calif., Davis | 49. Manitoba | 88. Tennessee |
| 11. Calif., Irvine | 50. Maryland | 89. Texas |
| 12. Calif., Los Angeles | 51. Massachusetts | 90. Texas A & M |
| 13. Calif., Riverside | 52. MIT | 91. Toronto |
| 14. Calif., San Diego | 53. Miami | 92. Tulane |
| 15. Calif., Santa Barbara | 54. Michigan | 93. Utah |
| 16. Case Western Reserve | 55. Michigan State | 94. Vanderbilt |
| 17. Chicago | 56. Minnesota | 95. Virginia |
| 18. Cincinnati | 57. Missouri | 96. Virginia Polytechnic |
| 19. Colorado | 58. Nebraska | 97. Washington |
| 20. Colorado State | 59. New Mexico | 98. Washington State |
| 21. Columbia | 60. New York | 99. Washington Univ., St. Louis |
| 22. Connecticut | 61. North Carolina | 100. Waterloo |
| 23. Cornell | 62. North Carolina St. | 101. Wayne State |
| 24. Dartmouth | 63. Northwestern | 102. Western Ontario |
| 25. Delaware | 64. Notre Dame | 103. Wisconsin |
| 26. Duke | 65. Ohio State | 104. Yale |
| 27. Emory | 66. Oklahoma | 105. York |
| 28. Florida | 67. Oklahoma State | *106. Boston Public Library |
| 29. Florida State | 68. Oregon | *107. Canada Inst. for Sci. & Tech. Info. |
| 30. Georgetown | 69. Pennsylvania | *108. Center for Research Libraries |
| 31. Georgia | 70. Pennsylvania State | *109. Library of Congress |
| 32. Georgia Tech | 71. Pittsburgh | *110. Linda Hall Library |
| 33. Guelph | 72. Princeton | *111. National Agricultural Library |
| 34. Harvard | 73. Purdue | *112. National Library of Canada |
| 35. Hawaii | 74. Queen's | *113. National Library of Medicine |
| 36. Houston | 75. Rice | *114. Newberry Library |
| 37. Howard | 76. Rochester | *115. New York Public Library |
| 38. Illinois | 77. Rutgers | *116. New York State Library |
| 39. Indiana | 78. Saskatchewan | *117. Smithsonian Institution |

*Nonuniversity library

ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
	VOLUMES IN LIBRARY	VOLUMES ADDED (GROSS)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	LOANED			BORROWED		
						ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
1 +GLM	1,559,141	51,391	47,801	1,111,963	13,076	2,895	3,101	5,996	2,491	1,621	4,112
2 +GLM	2,398,709	92,214	82,149	1,896,946	20,354	5,355	8,758	14,113	3,988	4,832	8,820
3 +LM	2,937,183	100,428	83,476	2,678,536	32,892	9,980	23,803	33,783	2,929	3,658	6,587
4 L	1,912,141	93,012	81,812	1,845,281	23,007	7,873	8,414	16,287	6,526	8,451	14,977
5 +LM	1,495,764	54,739	45,772	2,063,280	26,517	2,589	3,218	5,807	5,551	2,754	8,305
6 +	1,680,268	69,175	54,990	1,103,952	16,513	2,588	2,285	4,873	3,141	6,396	9,537
7 +LM	2,350,101	92,410	87,891	2,939,871	34,689	8,734	7,363	16,097	2,840	5,170	8,010
8 +bG	1,919,415	46,655	45,970	840,759	14,708	2,090	3,376	5,466	2,930	1,422	4,352
9 L	6,504,230	241,688	167,929	2,975,316	99,582	11,826	20,257	32,083	7,489	4,326	11,815
10 +bLM	1,910,374	96,462	83,224	1,960,831	48,115	8,558	21,637	30,195	3,058	2,686	5,744
11 M	1,120,910	53,395	52,547	1,241,152	15,729	8,076	4,411	12,487	3,865	4,652	8,517
12 +LM	5,150,678	203,652	181,341	3,322,357	80,507	10,383	36,136	46,519	6,304	2,090	8,394
13 +	1,161,431	42,382	39,919	982,769	13,201	3,680	2,109	5,789	3,213	5,339	8,552
14 +M	1,632,472	75,600	64,238	1,037,980	29,852	4,759	9,811	14,570	3,519	2,332	5,851
15 b	1,583,613	53,260	50,695	1,962,495	20,237	2,188	6,832	9,020	5,167	3,856	9,023
16 +GLM	1,446,600	20,602	14,040	489,537	10,322	N/A	N/A	38,275	N/A	N/A	7,854
17 +LM	4,794,104	113,234	105,743	955,290	45,978	2,785	19,098	21,883	2,654	869	3,523
18 +GLM	1,415,841	49,804	44,818	1,698,065	18,525	N/A	N/A	30,143	N/A	N/A	9,986
19 +L	2,009,696	38,119	37,524	2,644,748	21,333	4,625	6,383	11,008	3,600	2,617	6,217
20 +	1,401,844	48,050	44,894	920,299	16,079	3,376	5,782	9,158	3,379	2,986	6,365
21 +LM	5,377,006	113,319	91,574	2,956,716	61,167	3,814	16,294	20,108	3,150	3,279	6,429
22 GLM	1,865,136	66,930	63,925	1,779,160	17,166	8,278	14,217	22,495	3,372	4,388	7,760
23 +L	4,769,127	119,467	104,478	3,252,226	54,461	7,738	16,765	24,503	3,179	4,373	7,552
24 +M	1,558,380	45,316	41,382	1,480,125	19,101	5,285	4,241	9,526	5,203	4,709	9,912
25 +G	1,615,047	60,965	60,965	1,129,584	18,608	5,649	2,618	8,267	1,561	1,188	2,749

B - INCLUDES BRANCH CAMPUSES

G - GOVERNMENT DOCUMENTS NOT INCLUDED IN SERIALS COUNT

ARL Library Data Table

LIBRARY CODE NO.	EXPENDITURES							PERSONNEL (FTE)			
	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
1	2,261,340	924,021	93,990	2,355,330	1,698,128	423,935	4,477,393	46	66	59	171
2	2,684,510	1,539,169	159,447	2,843,957	7,263,243	1,011,056	11,118,256	82	284	38	404
3	3,639,771	1,843,275	241,032	3,880,803	4,519,463	1,051,120	9,451,386	89	181	89	359
4	2,852,184	1,566,686	245,999	3,098,183	3,784,404	821,560	7,704,147	63	178	46	287
5	2,240,239	1,284,242	121,447	2,361,686	3,258,959	862,047	6,482,692	64	143	66	273
6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	71	63	175	309
7	3,245,061	N/A	154,291	3,399,352	8,327,502	1,173,820	12,900,674	108	286	47	441
8	1,988,542	937,894	132,323	2,120,865	2,901,883	1,138,105	6,160,853	65	94	50	209
9	4,920,756	2,413,661	586,131	5,506,887	12,668,406	2,085,744	20,261,037	147	304	229	680
10	3,482,744	1,977,075	318,096	3,800,840	5,063,549	972,226	9,836,615	68	177	59	304
11	2,495,468	841,550	198,302	2,693,770	3,300,285	516,045	6,510,100	47	90	69	206
12	5,210,844	2,340,247	637,034	5,847,878	10,793,321	5,262,512	21,903,711	196	257	164	617
13	1,726,632	819,518	170,353	1,896,985	2,641,310	540,843	5,079,138	32	92	26	150
14	2,727,372	1,036,216	316,403	3,043,775	4,399,744	999,889	8,443,408	59	155	59	273
15	2,312,738	1,218,055	255,804	2,568,542	4,309,717	986,242	7,864,501	54	135	43	232
16	1,355,131	1,026,157	66,698	1,421,829	2,282,160	410,411	4,114,400	57	75	35	167
17	2,549,954	1,303,544	242,219	2,792,173	5,143,550	1,802,821	9,738,544	75	178	69	322
18	2,207,972	1,219,340	106,817	2,314,789	4,320,271	1,100,240	7,735,300	66	127	74	268
19	1,958,223	1,215,303	98,152	2,056,375	3,128,335	362,880	5,547,590	43	94	55	192
20	1,527,806	1,009,690	81,732	1,609,538	2,372,304	407,766	4,389,608	43	78	30	151
21	3,711,320	2,104,126	360,537	4,071,857	8,632,528	1,769,278	14,473,663	132	284	134	550
22	2,026,615	1,135,813	128,870	2,155,485	3,552,625	632,509	6,340,619	61	98	61	220
23	4,236,515	N/A	239,508	4,476,023	7,134,332	1,946,268	13,556,623	132	263	88	483
24	1,768,360	1,104,471	47,921	1,816,281	2,225,893	572,959	4,615,133	39	99	33	171
25	2,432,455	976,782	115,004	2,547,459	1,990,542	332,633	4,870,634	36	91	30	157

ARL Library Data Table

LIBRARY CODE NO.	EXPENDITURES							PERSONNEL (FTE)			
	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
26	3,157,168	1,751,818	173,352	3,330,520	4,622,469	782,889	8,735,878	68	135	43	246
27	2,322,809	1,135,076	125,652	2,448,461	3,013,621	772,555	6,234,637	56	111	46	213
28	2,276,279	1,465,216	119,097	2,395,376	3,880,191	826,603	7,102,170	94	164	110	368
29	1,465,151	1,074,006	80,503	1,545,654	2,477,870	283,790	4,307,314	55	92	59	206
30	2,261,105	1,141,640	119,328	2,380,433	3,841,563	1,345,488	7,567,484	67	96	76	239
31	3,095,473	2,090,728	214,536	3,310,009	3,545,825	499,597	7,355,431	74	163	87	324
32	1,227,678	947,246	90,347	1,318,025	1,582,832	638,155	3,539,912	49	47	17	113
33	1,563,705	672,612	63,837	1,627,542	2,633,965	221,067	4,482,574	35	117	15	167
34	7,067,186	2,960,000	516,167	7,583,353	14,932,919	2,141,974	24,658,246	287	509	166	962
35	2,005,032	962,243	130,480	2,135,512	3,776,557	1,037,617	6,949,686	62	98	61	221
36	2,239,019	1,235,892	113,777	2,352,796	3,463,135	833,672	6,649,603	58	149	50	257
37	4,781,220	1,587,445	222,972	5,004,192	5,701,115	2,972,115	13,677,422	90	148	51	289
38	4,369,205	2,014,347	158,531	4,527,736	7,454,359	1,603,919	13,586,014	120	295	128	543
39	3,503,907	1,427,079	191,631	3,695,538	5,861,779	692,771	10,250,088	108	205	174	487
40	3,079,409	1,875,965	204,344	3,283,753	3,557,539	390,985	7,232,277	78	103	68	249
41	2,427,101	1,293,799	156,531	2,583,632	2,742,757	354,647	5,681,036	48	106	46	200
42	2,268,077	1,262,934	71,827	2,339,904	4,028,646	2,319,608	8,688,158	77	183	46	306
43	2,833,007	1,409,121	158,584	2,991,591	3,879,284	1,271,828	8,142,703	81	132	81	294
44	825,629	319,747	56,463	882,092	2,633,104	1,256,391	4,771,587	45	85	54	184
45	3,167,235	1,291,001	99,609	2,266,844	3,084,574	813,673	6,165,091	64	115	91	270
46	2,887,651	1,647,313	186,780	3,074,431	3,180,417	725,712	6,980,560	64	106	89	259
47	2,115,875	1,128,589	133,362	2,249,237	5,667,221	452,567	8,369,025	74	210	32	316
48	2,351,990	913,269	68,607	2,420,597	2,970,914	311,713	5,703,224	36	137	16	189
49	1,698,117	949,104	107,623	1,805,740	4,089,657	429,516	6,324,913	63	159	23	245
50	2,446,071	1,271,967	146,345	2,592,416	4,392,360	766,173	7,750,949	82	150	88	320

ARL Library Data Table

COLLECTIONS						INTERLIBRARY LOANS					
						LOANED			BORROWED		
LIBRARY CODE NO.	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
51 +	2,002,460	66,391	63,627	1,236,085	13,507	3,241	6,374	9,615	3,214	3,879	7,093
52 +	1,947,072	57,678	40,698	1,430,521	20,318	3,162	16,096	19,258	1,778	2,578	4,356
53 +LM	1,474,762	53,106	30,180	1,828,507	20,030	4,185	8,297	12,482	2,960	4,862	7,842
54 +LM	5,661,789	115,645	91,005	2,838,784	62,298	4,371	15,493	19,864	5,782	4,440	10,222
55 G	2,992,904	103,386	94,206	2,036,961	20,121	1,521	4,924	6,445	2,735	2,028	4,763
56 +LM	4,127,798	99,563	90,394	1,857,742	45,946	25,944	122,084	148,028	6,581	7,657	14,256
57 +GLM	2,206,104	58,565	45,817	2,879,181	19,298	8,589	13,311	21,900	4,059	3,160	7,219
58 +	1,573,923	52,913	50,793	1,562,891	19,136	2,553	5,204	7,757	2,021	2,006	4,027
59 +G	1,170,411	48,275	44,364	2,369,941	9,687	4,598	2,422	7,020	2,049	1,694	3,743
60 +LM	2,815,357	66,984	58,887	1,759,663	29,454	3,497	6,193	9,690	2,015	5,012	7,027
61 +RLM	3,062,737	118,048	109,878	1,967,183	40,747	7,759	11,369	19,128	1,966	1,985	3,951
62 +	1,138,120	50,235	45,396	2,231,339	17,833	5,090	20,298	25,388	1,796	1,582	3,378
63 +LM	3,044,725	81,186	71,625	1,318,668	25,571	4,685	7,291	11,976	4,243	2,503	6,746
64 L	1,576,606	35,777	32,654	629,595	12,703	2,572	3,019	5,591	2,352	1,046	3,398
65 +LM	3,892,249	120,180	112,430	2,207,192	28,594	9,576	17,965	27,541	3,975	3,091	7,066
66 +GLM	2,039,620	61,363	59,067	1,612,791	16,621	3,740	9,592	13,332	4,973	8,475	13,448
67 +	1,370,164	30,817	23,286	1,454,504	14,702	4,363	6,490	10,853	1,961	2,287	4,248
68 +L	1,639,745	53,471	52,868	1,156,073	17,208	5,175	4,369	9,544	3,567	1,501	5,068
69 LM	3,193,015	79,924	72,039	1,623,229	29,716	4,470	5,157	9,627	5,335	5,163	10,498
70 +BG	2,530,401	137,109	127,463	1,684,333	25,870	4,522	6,783	11,305	4,818	4,319	9,137
71 +LM	2,552,031	80,206	73,900	1,806,202	20,012	9,049	18,014	27,063	3,504	2,638	6,142
72	3,636,334	123,993	117,072	1,750,875	39,361	N/A	N/A	7,886	N/A	N/A	5,280
73 G	1,593,668	66,680	55,606	1,401,118	17,194	1,348	7,650	8,998	2,588	2,784	5,372
74 +LM	1,543,643	49,024	48,047	1,143,214	14,248	N/A	N/A	5,180	N/A	N/A	6,507
75 +b	1,189,015	43,050	42,438	1,548,460	10,630	3,948	12,470	16,418	831	1,118	1,949

B - INCLUDES BRANCH CAMPUSES
G - GOVERNMENT DOCUMENTS NOT
INCLUDED IN SERIALS COUNT

L - INCLUDES LAW LIBRARY
M - INCLUDES MEDICAL LIBRARY
N/A - NOT AVAILABLE

+ - SEE FOOTNOTES
b - BIBLIOGRAPHIC COUNT

ARL Library Data Table

LIBRARY CODE NO.	EXPENDITURES							PERSONNEL (FTE)			
	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
51	1,618,871	836,877	69,518	1,688,389	3,285,742	274,620	5,248,751	55	107	47	209
52	1,733,853	1,085,568	105,113	1,838,966	4,231,341	1,319,707	7,390,014	85	151	38	274
53	1,930,878	1,156,182	95,349	2,026,227	3,205,558	762,530	5,994,315	58	115	87	260
54	4,180,888	2,184,695	242,275	4,423,163	7,728,190	1,512,847	13,664,200	137	270	131	538
55	2,431,985	1,204,077	171,656	2,603,641	4,426,539	1,115,582	8,145,762	77	130	111	318
56	3,663,283	1,981,498	361,422	4,024,705	7,381,432	1,551,865	12,958,002	113	165	130	408
57	2,034,687	1,171,765	160,997	2,195,684	2,643,164	447,999	5,286,847	52	109	41	202
58	1,761,679	1,117,612	99,263	1,860,942	2,170,649	720,545	4,752,136	50	101	33	184
59	1,609,539	817,136	80,408	1,689,947	2,366,797	319,339	4,376,083	43	102	51	196
60	3,060,203	1,940,401	181,435	3,241,638	5,703,954	1,089,674	10,035,266	97	178	68	343
61	3,845,460	1,632,844	230,347	4,075,807	5,465,352	1,377,216	10,918,375	112	188	76	376
62	2,188,156	1,355,791	123,285	2,311,441	2,568,603	346,950	5,226,994	41	109	131	281
63	2,583,419	1,519,370	185,884	2,769,303	5,119,859	967,228	8,856,390	100	142	104	346
64	1,441,330	647,686	101,740	1,543,070	1,964,014	543,304	4,050,388	46	100	15	161
65	4,172,343	1,980,754	219,931	4,392,274	6,567,337	1,947,187	12,906,798	103	198	148	449
66	1,856,568	1,202,708	70,141	1,926,709	2,519,924	592,652	5,039,285	46	81	66	193
67	1,197,704	774,336	85,275	1,283,579	1,604,345	478,572	3,366,496	41	55	54	150
68	2,220,282	1,008,345	85,130	2,305,412	2,658,740	242,089	5,206,241	42	83	48	173
69	2,501,022	1,398,148	252,138	2,753,160	5,439,189	1,301,696	9,494,045	96	156	60	312
70	3,205,349	1,769,948	178,238	3,383,587	6,204,596	1,644,629	11,232,812	101	259	60	420
71	2,259,739	865,952	164,330	2,424,069	4,552,928	649,953	7,626,950	83	168	70	321
72	3,296,773	1,629,934	327,421	3,624,194	6,354,252	1,355,097	11,333,543	97	227	58	382
73	1,904,368	1,277,585	113,021	2,017,389	3,275,969	538,709	5,832,067	42	164	50	256
74	1,895,906	988,767	84,673	1,980,579	3,027,799	275,589	5,283,967	40	162	25	227
75	1,544,340	932,126	45,195	1,589,535	1,983,219	523,502	4,096,256	38	78	20	136

ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
76 +GM	1,969,702	61,305	54,787	2,296,827	12,829	6,004	10,591	16,595	2,687	3,102	5,789
77 +BGM	2,140,698	61,146	57,388	1,826,050	22,196	4,784	14,498	19,282	3,179	4,553	7,732
78 +GLM	1,168,036	43,366	43,366	1,349,893	9,577	2,463	4,732	7,195	2,878	6,783	9,661
79 +LM	2,059,709	62,829	54,618	2,065,880	17,001	5,668	6,647	12,315	3,830	1,246	5,076
80 +LM	2,332,214	87,318	81,365	1,576,766	38,598	2,374	7,900	10,274	912	1,314	2,226
81 +GL	1,800,076	48,100	43,709	2,275,340	19,977	28,277	14,864	43,141	2,408	1,941	4,349
82 +BLM	5,177,088	145,725	136,017	3,053,804	47,316	6,017	9,799	15,816	4,288	2,465	6,753
83 +	1,094,005	33,955	31,510	2,056,153	16,108	6,887	8,790	15,677	4,069	5,029	9,098
84 +LM	2,250,226	75,892	68,985	2,714,272	22,660	5,278	15,981	21,259	2,605	3,207	5,812
85 +bM	1,424,923	51,487	50,823	2,164,377	17,996	5,563	12,109	17,672	2,476	2,824	5,300
86 +bL	2,122,453	64,267	56,580	2,332,823	21,616	2,562	2,195	4,757	1,790	1,836	3,626
87 +LM	1,787,130	49,112	44,535	1,128,292	14,401	4,263	4,527	8,790	1,894	1,772	3,666
88 +	1,483,318	39,442	34,580	1,539,197	17,592	7,513	6,851	14,364	2,273	1,805	4,078
89 +L	5,209,536	174,634	151,887	3,128,185	67,371	8,651	5,904	14,555	5,673	2,415	8,088
90 +M	1,540,910	67,919	66,230	2,192,257	17,900	7,111	27,249	34,360	4,580	7,993	12,573
91 +GLM	5,040,357	210,309	183,607	1,851,742	43,205	10,163	8,152	18,315	3,582	4,110	7,692
92 +LM	1,528,875	58,441	50,872	1,412,864	14,573	N/A	N/A	8,391	N/A	N/A	8,391
93 G	2,076,366	40,054	30,569	2,073,361	14,335	4,762	3,449	8,211	4,380	3,205	7,585
94 +LM	1,567,217	54,568	50,179	1,159,195	16,029	6,823	5,131	11,954	3,751	1,877	5,628
95 +GLM	2,622,969	86,975	72,905	2,980,756	21,652	8,158	9,166	17,324	4,109	1,781	5,890
96 +	1,442,663	56,966	50,927	3,642,361	23,000	5,529	11,409	16,938	1,695	1,841	3,536
97 +LM	4,296,319	148,004	127,270	4,105,691	39,619	24,316	88,453	112,769	2,289	1,426	3,715
98 +	1,384,073	39,353	37,464	2,020,578	32,778	6,106	5,135	11,241	1,604	2,267	3,871
99 LM	1,989,816	46,645	36,769	1,365,819	15,358	4,462	14,076	18,538	3,404	4,914	8,318
100 +	1,331,751	54,435	53,652	616,723	16,968	4,329	4,071	8,400	2,551	1,924	4,475

B - INCLUDES BRANCH CAMPUSES
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L - INCLUDES LAW LIBRARY
M - INCLUDES MEDICAL LIBRARY
N/A - NOT AVAILABLE

+ - SEE FOOTNOTES
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ARL Library Data Table

LIBRARY CODE NO.	EXPENDITURES							PERSONNEL (FTE)			
	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
76	1,945,796	1,233,092	116,509	2,062,305	3,114,233	1,099,207	6,275,745	55	94	54	203
77	3,054,407	1,980,742	278,865	3,333,272	6,958,896	903,060	11,195,228	96	231	67	394
78	1,742,748	1,026,052	69,334	1,812,082	3,109,104	262,091	5,183,277	40	115	18	173
79	1,847,574	1,179,710	98,031	1,945,605	2,580,804	404,234	4,930,643	63	111	31	205
80	2,924,593	1,857,708	133,926	3,058,519	4,753,431	1,129,381	8,941,331	84	140	95	319
81	1,905,635	1,272,238	108,922	2,014,557	3,402,234	543,466	5,960,257	58	92	92	242
82	5,351,514	2,383,298	339,499	5,691,013	12,182,214	3,038,286	20,911,513	155	334	91	580
83	1,643,821	1,143,248	51,000	1,694,821	2,290,522	869,661	4,855,004	49	84	23	156
84	2,376,963	1,548,023	174,856	2,551,819	4,108,764	859,086	7,519,669	92	128	70	290
85	2,020,032	1,187,971	101,868	2,121,900	3,059,079	455,332	5,636,311	48	115	47	210
86	2,131,135	1,207,362	85,000	2,216,135	3,172,877	1,831,916	7,220,928	63	130	39	232
87	1,558,746	1,070,629	87,087	1,645,833	3,481,630	597,375	5,724,838	71	110	60	241
88	1,594,032	1,061,038	109,324	1,703,356	2,703,270	374,165	4,780,791	51	133	31	215
89	6,468,425	2,173,915	185,968	6,654,393	8,904,523	1,453,390	17,012,306	138	392	84	614
90	3,129,443	1,698,634	152,406	3,281,849	3,698,256	1,280,165	8,260,270	66	145	70	281
91	4,491,332	2,029,394	236,991	4,728,323	12,125,112	589,774	17,443,209	151	476	84	711
92	2,214,143	1,140,079	102,139	2,316,282	2,583,943	508,676	5,408,901	47	100	73	220
93	1,911,763	758,396	143,243	2,055,006	2,616,190	550,114	5,221,310	47	98	68	213
94	1,882,801	1,167,444	109,395	1,992,196	2,897,501	498,939	5,388,636	64	116	65	245
95	3,104,587	1,507,784	184,713	3,289,300	4,860,478	1,172,570	9,322,348	86	197	56	339
96	2,240,600	1,337,800	93,300	2,333,900	2,489,600	1,169,100	5,992,600	55	108	21	184
97	3,248,484	2,151,268	219,510	3,467,994	7,176,541	590,137	11,234,672	122	235	125	482
98	1,960,750	1,207,937	138,407	2,099,157	2,903,668	832,343	5,835,168	41	103	66	210
99	2,208,036	1,425,174	114,276	2,322,312	3,012,056	1,910,991	7,245,359	62	124	37	223
100	1,825,957	N/A	65,176	1,891,133	3,323,974	334,570	5,549,677	43	148	26	217

ARL Library Data Table

[illegible]

ARL Library Data Table Totals

COLLECTIONS					INTERLIBRARY LOANS					
VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	LOANED			BORROWED		
					ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
1	2	3	4	5	6	7	8	9	10	11
UNIVERSITY MEDIAN										
1,928,058	64,267	55,606	1,806,202	20,237	5,278	8,414	14,555	3,058	2,686	6,272
UNIVERSITY HIGH										
10,707,266	241,688	203,602	4,105,691	101,000	80,802	122,084	148,028	117,768	9,885	126,329
UNIVERSITY LOW										
1,094,005	20,602	14,040	489,537	8,852	1,070	1,602	3,728	831	590	1,949
TOTALS—UNIVERSITY LIBRARIES										
259,451,359	8,251,447	7,348,546	194,306,988	2,855,490	720,164	1,279,050	2,100,659	446,937	332,887	822,479
TOTALS—NON-UNIVERSITY LIBRARIES										
45,728,491	912,360	839,221	21,239,400	393,207	194,956	246,822	681,003	2,231	1,323	37,072
GRAND TOTALS—ALL ARL LIBRARIES										
305,179,850	9,163,807	8,187,767	215,546,388	3,248,697	915,120	1,525,872	2,781,662	449,168	334,210	859,551

ARL Library Data Table Totals

EXPENDITURES							PERSONNEL (FTE)			
LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS	TOTAL STAFF
12	13	14	15	16	17	18	19	20	21	22
UNIVERSITY MEDIAN										
2,264,709	1,233,092	131,401	2,387,905	3,555,082	824,015	7,152,481	64	133	59	257
UNIVERSITY HIGH										
7,067,186	2,960,000	637,034	7,583,353	14,932,919	5,262,512	24,658,246	287	509	229	962
UNIVERSITY LOW										
825,629	319,747	45,195	882,092	1,582,832	221,067	3,366,496	32	47	15	113
TOTALS—UNIVERSITY LIBRARIES										
272,245,325	138,057,103	17,070,379	289,297,704	465,976,354	102,562,591	857,836,649	7,919	16,398	7,128	31,446
TOTALS—NON-UNIVERSITY LIBRARIES										
27,934,211	6,295,250	2,194,884	30,129,095	199,333,112	137,523,820	366,518,027	3,770	4,149	223	8,142
GRAND TOTALS—ALL ARL LIBRARIES										
300,179,536	144,352,353	19,265,263	319,426,799	665,309,466	240,086,411	1,224,354,676	11,689	20,547	7,351	39,588

ANALYSIS OF SELECTED VARIABLES OF UNIVERSITY LIBRARIES

The percentages and ratios below are intended to summarize the basic data in the ARL Library Data Tables. The high, median, and low figures indicate the range as well as the midpoint for ARL's 105 university library members.

	<u>Category</u>	<u>High</u>	<u>Median</u>	<u>Low</u>
1.	Professional Staff as percent of Total Staff	43	25	14
2.	Nonprofessional Staff as percent of Total Staff	72	52	20
3.	Student Assistant Staff as percent of Total Staff	56	21	8
4.	Ratio of Professional to Non-professional Staff (excluding student assistants)	1.1:1	0.5:1	0.2:1
5.	Ratio of Items Loaned to Items Borrowed	30.4:1	2.3:1	0.5:1
6.	Materials Expenditures as percent of Total Operating Expenditures	50	32	17
7.	Serials Expenditures as percent of Materials Expenditures	77	55	33
8.	Salary and Wage Expenditures as percent of Total Operating Expenditures	69	53	37
9.	Ratio of Salary and Wage Expenditures to Materials Expenditures	3.2:1	1.6:1	0.8:1

Median figures are useful indicators when there is wide dispersion within a distribution. Because the mean represents a "balance point," a few very high or low scores may sometimes pull the mean away from the actual point at which values cluster. Medians, on the other hand, are a measure of central tendency, focusing on the midpoint in a distribution, and are thus preferable for describing ARL libraries.

Ph.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1983			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Alabama	97	42	14,988	926	2,077	503
Alberta	148	53	22,857	1,067	2,453	310
Arizona	255	72	22,415	3,379	3,023	1,659
Arizona State	104	33	26,593	5,343	2,362	1,240
Boston+	140	45	18,727	3,000	5,395	1,284
Brigham Young	73	36	22,474	3,545	1,411	383
British Columbia	129	135	21,803	1,398	2,811	405
Brown	119	27	5,402	68	1,174	16
Calif., Berkeley	702	103	27,338	1,293	7,046	298
Calif., Davis	253	53	18,969	0	5,081	0
Calif., Irvine	94	30	11,474	N/A	2,395	N/A
Calif., Los Angeles	424	61	32,002	1,383	7,656	82
Calif., Riverside	114	25	4,409	127	1,213	30
Calif., San Diego	166	37	12,729	341	1,553	18
Calif., Santa Barbara	161	31	16,102	650	1,928	80
Case Western Reserve	159	62	6,520	636	1,724	543
Chicago	339	80	7,173	969	3,407	837
Cincinnati	139	55	19,541	3,597	2,314	474
Colorado	258	48	19,727	978	2,738	199
Colorado State	162	36	16,167	444	1,689	123
Columbia	386	54	13,206	1,268	6,554	911
Connecticut	159	66	16,462	6,442	2,396	3,621
Cornell	424	74	17,336	N/A	5,066	N/A
Dartmouth	22	10	4,534	101	920	56
Delaware	107	40	13,710	1,707	1,008	314
Duke	161	33	9,384	389	3,210	91
Emory	92	41	7,136	280	918	149
Florida	255	67	23,806	1,601	3,022	716
Florida State	293	62	16,596	2,066	2,018	683
Georgetown	69	17	9,365	1,235	1,018	671
Georgia	171	51	21,930	1,917	2,471	496
Georgia Tech	84	62	9,740	436	1,466	216
Guelph	32	53	10,774	659	887	45
Harvard	323	57	15,518	2,320	6,449	186
Hawaii	112	38	15,229	2,285	1,681	565
Houston	105	45	15,781	7,740	1,849	1,939
Howard	57	23	10,309	N/A	2,792	N/A
Illinois	520	75	33,039	1,791	6,643	1,243

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1983			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Indiana	321	99	27,455	1,974	3,706	659
Iowa	261	54	23,339	2,697	3,190	1,272
Iowa State	228	62	22,841	1,563	2,156	870
Johns Hopkins	157	55	5,085	1,722	2,221	1,256
Kansas +	241	61	20,212	2,277	2,315	1,117
Kent State +	110	18	14,697	1,681	1,486	440
Kentucky	117	46	16,779	1,523	1,510	527
Louisiana State	99	64	24,124	2,184	3,251	889
McGill	127	50	16,056	4,308	2,854	875
McMaster	86	26	11,518	2,358	1,192	704
Manitoba	72	36	15,987	3,893	2,042	506
Maryland +	387	72	27,877	3,644	3,035	1,290
Massachusetts	186	44	21,267	1,531	2,666	900
MIT	463	220	9,072	475	4,479	152
Miami	79	37	10,929	1,501	1,265	433
Michigan	629	125	30,567	1,804	6,748	971
Michigan State	391	113	33,784	3,338	3,443	1,751
Minnesota	466	87	37,634	9,753	8,164	401
Missouri	222	71	20,394	1,348	1,881	645
Nebraska	218	37	19,385	5,404	1,776	2,089
New Mexico	114	35	14,085	3,612	1,564	807
New York	395	144	17,751	5,516	7,061	3,865
North Carolina	283	67	18,341	1,701	2,744	763
North Carolina State	211	41	16,200	5,633	1,352	1,034
Northwestern	271	66	12,561	1,141	5,274	499
Notre Dame	75	23	9,182	115	1,233	75
Ohio State	513	85	43,441	3,872	5,792	1,004
Oklahoma	118	47	18,232	1,682	1,929	1,298
Oklahoma State	135	38	18,632	1,249	1,456	671
Oregon	237	49	13,075	841	1,991	146
Pennsylvania	302	66	17,273	1,668	5,526	689
Pennsylvania State	323	86	47,544	4,772	3,558	583
Pittsburgh	369	70	17,452	4,790	3,517	2,008
Princeton	226	48	6,200	0	1,667	0
Purdue	384	53	28,155	1,196	3,424	492
Queen's	31	27	11,368	3,447	1,523	428
Rice	83	27	3,755	N/A	1,104	N/A
Rochester	128	51	6,603	631	1,701	232

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1983			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Rutgers	243	52	31,289	4,072	3,906	3,068
Saskatchewan	29	N/A	12,754	1,275	856	355
South Carolina	109	35	16,141	2,936	1,673	945
Southern California	N/A	N/A	18,569	4,603	2,678	3,640
Southern Illinois	152	20	18,691	2,259	838	1,349
Stanford	488	74	11,723	724	4,238	504
SUNY - Albany	84	21	11,779	1,745	1,702	1,247
SUNY - Buffalo	224	62	18,866	3,043	4,749	1,587
SUNY - Stony Brook	167	23	12,953	N/A	855	N/A
Syracuse +	157	93	14,976	2,103	2,677	1,399
Temple	131	110	17,879	3,574	4,286	1,901
Tennessee +	176	46	20,009	2,522	2,109	751
Texas	418	64	41,438	3,074	7,856	701
Texas A & M	293	72	32,248	1,887	3,574	564
Toronto	294	67	35,672	5,039	5,250	1,155
Tulane	46	26	8,415	1,982	1,751	720
Utah	162	60	16,680	3,408	854	979
Vanderbilt	139	37	8,229	247	1,859	177
Virginia	164	43	15,478	525	3,063	210
Virginia Polytechnic	198	50	20,171	903	2,430	617
Washington	346	62	26,602	3,285	5,075	727
Washington State	153	36	15,483	319	1,429	159
Wash. Univ., St. Louis	343	46	7,206	1,037	1,285	328
Waterloo	80	50	13,552	2,178	3,268	329
Wayne State	194	54	16,262	5,294	1,919	1,467
Western Ontario	85	29	15,639	3,250	1,877	209
Wisconsin +	630	119	35,983	2,734	7,280	875
Yale	286	50	9,850	268	3,530	114
York +	52	54	14,798	4,296	1,498	465

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

THE ARL LIBRARY INDEX*

The data tables at the beginning of the ARL Statistics display figures reported by ARL member libraries in 22 categories that, with the exception of the measures of interlibrary loan activity, describe the size of ARL libraries in terms of holdings, expenditures, and personnel. The rank order tables provide an overview of the ranges and medians for 14 of these categories, or variables, among ARL academic libraries, as well as quantitatively comparing each library with other ARL member institutions. However, no one of the 22 variables provides a summary measure of a library's relative size within ARL or characterizes the ARL libraries as a whole.

The ARL Library Index has been derived as a means of providing this summary characterization, permitting quantitative comparisons of ARL academic libraries, singly and as a group, with other academic libraries. Through the use of statistical techniques known as factor analysis, it can be determined that 15 of the variables reported to ARL are more closely correlated with each other than with other categories. Within this group of 15 variables, some are subsets or combinations of others, e.g. expenditures for serials are a subset of expenditures for library materials. When the subsets and combinations are eliminated, ten variables emerge as characteristic of ARL library size. These are: volumes held, volumes added (gross), microform units held, current serials received, expenditures for library materials, expenditures for binding, total salary and wage expenditures, other operating expenditures, number of professional staff, and number of nonprofessional staff.

These ten categories delineate an underlying dimension, or factor, of library size. By means of principal component analysis, a technique that is a variant of factor analysis, it is possible to calculate the correlations of each of the variables with this hypothetical factor of library size. From this analysis, a weight for each variable can be determined based upon how closely that variable is correlated with the overall dimension of library size defined by all ten categories. A high correlation indicates that much of the variation in ARL library size is accounted for by the variable in question, implying a characteristic in which ARL libraries are relatively alike. The component score coefficients, or weights, for the 1983-84 ARL academic library data are:

Volumes held	.12311
Volumes added (gross)	.12153
Microforms held	.07722
Current serials received	.12279
Expenditures for library materials	.12491
Expenditures for binding	.11548
Expenditures for salaries and wages	.12666
Other operating expenditures	.09760
Number of professional staff	.12714
Number of nonprofessional staff	.11800

*For a full description of the index see Kendon Stubbs, The ARL Library Index and Quantitative Relationships in the ARL (Washington, D.C.: ARL, 1980).

From these weights an individual library can compute an index score that will indicate its relative position among ARL libraries with respect to the overall factor of library size. The data for each of the ten variables are converted to standard normal form and multiplied by the appropriate weight. The resulting scores are expressed in terms of the number of standard deviations above or below the mean index score for ARL academic libraries. Thus the formula* for calculating a library's 1983-84 index score is:

$$\begin{aligned}
 &.12311 (\log \text{ of volumes held} - 6.3333)/.2106 \\
 + &.12153 (\log \text{ of volumes added gross} - 4.8453)/.2017 \\
 + &.07722 (\log \text{ of microforms} - 6.2315)/.1835 \\
 + &.12279 (\log \text{ of current serials} - 4.3650)/.2312 \\
 + &.12491 (\log \text{ of expenditures for materials} - 6.3848)/.1632 \\
 + &.11548 (\log \text{ of expenditures for binding} - 5.1455)/.2351 \\
 + &.12666 (\log \text{ of total salaries} - 6.5977)/.2069 \\
 + &.09760 (\log \text{ of operating expenditures} - 5.9044)/.2819 \\
 + &.12714 (\log \text{ of professional staff} - 1.8338)/.1865 \\
 + &.11800 (\log \text{ of nonprofessional staff} - 2.1459)/.1970
 \end{aligned}$$

The index scores for the 105 academic libraries that were members of ARL during 1983-84 are shown on the following page. It is important to emphasize that these scores are only a summary description of library size, distributing ARL libraries along a normal curve, based on ten quantitative measures that are positively correlated with one another in ARL libraries. The scores are in no way a qualitative assessment of the collections, services, or operations of these libraries.

*For calculation on a hand calculator, the formula can be mathematically simplified to:

$$\begin{aligned}
 &.58457 \times \log \text{ of volumes held} \\
 + &.60253 \times \log \text{ of volumes added gross} \\
 + &.42082 \times \log \text{ of microforms} \\
 + &.53110 \times \log \text{ of current serials} \\
 + &.76538 \times \log \text{ of expenditures for materials} \\
 + &.49120 \times \log \text{ of expenditures for binding} \\
 + &.61218 \times \log \text{ of total salaries} \\
 + &.34634 \times \log \text{ of operating expenditures} \\
 + &.68172 \times \log \text{ of professional staff} \\
 + &.59898 \times \log \text{ of nonprofessional staff} \\
 - &27.59592
 \end{aligned}$$

ARL Library Index, 1983-1984

NOTE: These index scores are only a summary description of library size based on ten quantitative measures. The scores are in no way a qualitative assessment of the collections, services, or operations of these libraries.

1. Harvard	3.01	54. Western Ontario	-0.28
2. Calif., Los Angeles	2.51	55. Cincinnati	-0.30
3. Calif., Berkeley	2.47	56. Georgetown	-0.31
4. Yale	2.11	57. Wayne State	-0.32
5. Stanford	2.11	58. Virginia Polytechnic	-0.33
6. Texas	1.99	59. Washington, St. Louis	-0.34
7. Illinois	1.79	60. Missouri	-0.36
8. Toronto	1.78	61. Connecticut	-0.38
9. Columbia	1.73	62. Rochester	-0.44
10. Michigan	1.65	63. York	-0.44
11. Cornell	1.61	64. Emory	-0.45
12. Wisconsin	1.52	65. Miami	-0.51
13. Washington	1.27	66. Southern Illinois	-0.51
14. Minnesota	1.23	67. Washington State	-0.53
15. Ohio State	1.14	68. Purdue	-0.53
16. Princeton	1.13	69. South Carolina	-0.54
17. North Carolina	1.03	70. Iowa State	-0.55
18. British Columbia	0.98	71. Brigham Young	-0.57
19. Indiana	0.89	72. Brown	-0.60
20. Pennsylvania State	0.89	73. SUNY - Stony Brook	-0.64
21. Arizona	0.81	74. Calif., Irvine	-0.64
22. Chicago	0.80	75. Vanderbilt	-0.66
23. Calif., Davis	0.70	76. Utah	-0.67
24. Pennsylvania	0.61	77. Colorado	-0.68
25. Virginia	0.60	78. Temple	-0.70
26. Rutgers	0.59	79. Nebraska	-0.75
27. Alberta	0.59	80. Tulane	-0.75
28. Howard	0.58	81. Manitoba	-0.77
29. New York	0.56	82. North Carolina State	-0.78
30. Georgia	0.49	83. Oklahoma	-0.80
31. Northwestern	0.40	84. Georgia Tech	-0.82
32. Southern California	0.40	85. Tennessee	-0.83
33. Michigan State	0.33	86. Massachusetts	-0.84
34. Duke	0.31	87. Delaware	-0.89
35. Arizona State	0.26	88. Queen's	-0.90
36. Kansas	0.24	89. McMaster	-0.96
37. SUNY - Buffalo	0.24	90. Oregon	-0.98
38. Iowa	0.21	91. Florida State	-1.00
39. Florida	0.18	92. Waterloo	-1.00
40. Pittsburgh	0.18	93. Dartmouth	-1.06
41. Calif., San Diego	0.18	94. Calif., Riverside	-1.09
42. Texas A&M	0.05	95. Alabama	-1.11
43. Johns Hopkins	-0.01	96. SUNY - Albany	-1.12
44. Louisiana State	-0.02	97. New Mexico	-1.14
45. Calif., Santa Barbara	-0.07	98. Colorado State	-1.20
46. Maryland	-0.07	99. Saskatchewan	-1.23
47. Hawaii	-0.09	100. Guelph	-1.26
48. Syracuse	-0.11	101. Notre Dame	-1.27
49. MIT	-0.13	102. Kent State	-1.39
50. Houston	-0.14	103. Rice	-1.44
51. Kentucky	-0.19	104. Oklahoma State	-1.51
52. Boston	-0.20	105. Case Western Reserve	-1.65
53. McGill	-0.23		

SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES

The table below presents the rank for each university library in each of the fourteen categories for which rank order tables are prepared. As a further indication of the relative position of each institution, note that, in the individual rank order tables on the following pages, "group codes" are used. This is done because, in a number of cases, there is a relatively insignificant difference between two institutions which are nevertheless given two different rankings. The "coarser" ranking provided by clustering institutions into groups (based upon ranges) more realistically describes a library's relative standing.

The table numbers in the chart below refer to the following categories:

Table 1 - Volumes in Library	Table 8 - Materials Expenditures
Table 2 - Volumes Added (Gross)	Table 9 - Materials & Binding Expenditures
Table 3 - Total Microform Holdings	Table 10 - Salaries & Wages Expenditures
Table 4 - Current Serials	Table 11 - Total Expenditures
Table 5 - Professional Staff (FTE)	Table 12 - Total Items Lent
Table 6 - Nonprofessional Staff (FTE)	Table 13 - Total Items Borrowed
Table 7 - Total Staff (FTE)	Table 14 - Current Serials Expenditures

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Alabama	73	80	91	96	85	102	94	53	55	102	96	95	82	89
Alberta	32	27	46	50	33	9	19	36	36	14	21	55	21	31
Arizona	24	22	17	23	28	26	24	17	17	34	28	10	49	20
Arizona State	55	25	50	41	54	27	43	33	31	49	42	47	5	29
Boston	81	70	36	35	50	46	47	57	54	63	59	96	27	44
Brigham Young	62	45	92	79	42	103	36	N/A	N/A	N/A	N/A	102	17	N/A
British Columbia	34	26	11	21	16	8	16	22	22	9	16	48	29	N/A
Brown	54	90	100	86	49	87	77	72	71	77	65	100	78	87
Calif., Berkeley	4	1	9	2	6	6	3	5	5	2	4	12	10	2
Calif., Davis	56	24	44	12	44	30	38	19	18	29	25	13	59	16
Calif., Irvine	104	74	83	84	81	94	79	40	40	60	58	58	23	93
Calif., Los Angeles	9	4	4	4	2	14	4	4	3	5	2	5	25	4
Calif., Riverside	102	95	95	95	105	90	102	89	84	83	86	98	22	95
Calif., San Diego	64	38	93	28	61	39	48	35	34	37	34	52	56	77
Calif., Santa Barbara	68	75	43	53	72	51	62	50	45	40	39	80	20	53
Case Western Reserve	87	105	105	101	65	101	96	101	101	96	100	7	31	79
Chicago	11	20	96	14	39	28	29	38	37	27	26	28	93	41
Cincinnati	90	83	57	65	47	58	50	62	61	39	41	14	14	52
Colorado	46	100	18	48	89	88	87	74	75	67	76	67	54	54
Colorado State	92	89	98	82	90	99	101	98	97	93	97	79	52	80

N/A - Not Available

TABLES

INSTITUTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Columbia	6	19	10	8	9	10	8	15	15	8	8	31	51	9
Connecticut	57	48	54	75	60	83	68	68	68	53	60	26	33	67
Cornell	12	15	5	9	10	12	13	10	10	16	13	23	37	N/A
Dartmouth	74	92	68	63	100	82	95	85	88	97	94	77	15	71
Delaware	66	60	88	64	102	93	99	43	47	99	89	86	98	83
Duke	19	32	90	27	45	52	56	24	25	32	32	25	87	23
Emory	58	66	82	72	66	67	73	49	49	73	63	24	74	68
Florida	31	43	22	39	25	33	23	51	52	45	53	30	8	34
Florida State	69	104	20	49	67	91	80	99	99	92	99	33	72	74
Georgetown	86	54	81	61	46	86	61	54	53	47	44	97	97	65
Georgia	36	28	12	10	40	35	28	27	26	55	47	21	71	10
Georgia Tech	61	16	45	34	77	105	105	102	102	104	103	51	104	86
Guelph	83	40	99	103	104	60	97	95	96	84	95	105	61	99
Harvard	1	5	3	1	1	1	1	1	1	1	1	20	68	1
Hawaii	51	51	32	22	58	84	67	70	69	50	55	91	102	84
Houston	91	44	19	38	62	42	53	58	56	57	56	71	62	50
Howard	93	41	64	47	27	43	42	6	6	23	10	104	103	28
Illinois	3	3	33	3	13	7	9	9	9	12	12	2	1	12
Indiana	15	10	67	31	17	20	12	18	19	21	23	11	13	35
Iowa	27	29	27	26	36	76	55	28	28	52	50	16	66	18
Iowa State	75	63	66	52	79	74	84	45	44	79	73	37	67	42
Johns Hopkins	30	62	77	71	37	25	37	52	57	44	33	44	4	48
Kansas	33	39	74	32	35	54	40	34	35	46	38	17	2	37
Kent State	80	96	94	105	88	95	89	104	104	85	92	75	38	101
Kentucky	53	78	15	25	51	62	49	64	64	70	64	39	39	43
Louisiana State	42	42	40	40	52	75	52	32	32	65	54	88	88	25
MIT	52	67	73	51	30	40	46	88	87	41	46	35	77	73
Manitoba	98	81	101	99	55	37	57	90	90	43	61	66	41	85
Maryland	65	84	41	59	34	41	31	42	43	38	40	68	100	47
Massachusetts	47	50	84	94	68	73	78	92	94	61	81	74	42	94
McGill	38	55	104	89	41	19	34	66	65	24	35	15	24	69
McMaster	96	61	97	93	103	49	88	48	51	75	72	83	45	90
Miami	85	76	51	55	63	63	51	76	77	64	66	59	32	63

N/A - Not Available

TABLES

INSTITUTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Michigan	5	18	14	7	8	11	10	11	11	10	11	32	12	5
Michigan State	23	21	38	54	38	55	33	44	42	35	37	94	73	57
Minnesota	16	23	48	15	14	32	18	16	16	13	14	1	6	13
Missouri	39	64	13	60	74	70	83	67	67	82	79	27	40	61
Nebraska	71	77	62	62	76	79	90	86	86	98	93	90	84	70
New Mexico	100	87	23	102	91	78	85	93	93	94	98	93	89	96
New York	25	47	55	30	21	29	26	29	30	22	24	72	44	17
North Carolina	21	17	42	17	15	24	22	14	14	25	22	36	85	26
North Carolina State	103	82	28	69	95	71	44	63	62	89	82	22	96	39
Northwestern	22	33	80	37	20	47	25	37	38	28	31	61	47	32
Notre Dame	70	101	102	98	86	80	98	100	100	101	102	99	95	100
Ohio State	17	14	29	33	18	21	15	12	12	18	15	18	43	14
Oklahoma	45	57	60	78	87	98	86	82	83	90	87	56	7	58
Oklahoma State	95	103	70	87	96	104	103	103	103	103	104	69	81	97
Oregon	63	73	86	73	93	97	92	59	63	81	84	76	70	81
Pennsylvania	20	35	59	29	23	38	35	39	39	26	27	73	11	38
Pennsylvania State	29	11	58	36	19	13	17	23	23	20	19	64	18	22
Pittsburgh	28	34	53	56	32	31	30	55	50	33	43	19	55	91
Princeton	18	12	56	19	22	18	21	20	20	19	17	89	65	27
Purdue	67	49	76	74	94	34	54	79	78	62	70	81	63	45
Queen's	76	86	87	92	98	36	64	80	81	72	80	101	50	82
Rice	99	94	63	100	101	100	104	97	98	100	101	46	105	88
Rochester	50	58	25	97	69	89	82	75	74	68	62	45	58	51
Rutgers	40	59	52	44	24	17	20	30	24	17	20	34	34	15
SUNY Albany	105	102	37	81	78	96	100	91	92	95	90	50	19	64
SUNY Buffalo	37	37	16	43	26	57	41	46	46	42	45	29	57	30
SUNY Stony Brook	89	79	31	67	80	65	75	69	70	71	74	41	64	59
Saskatchewan	101	93	79	104	99	64	93	87	89	69	85	92	16	78
South Carolina	44	56	35	76	56	68	81	83	82	88	88	60	69	60
Southern California	35	30	61	20	31	48	32	31	33	31	30	70	101	19
Southern Illinois	59	88	26	57	64	92	59	78	79	58	68	6	79	46
Stanford	8	9	7	13	4	5	7	3	4	3	3	49	46	3
Syracuse	41	53	24	46	57	56	63	65	66	66	51	103	92	56

N/A - Not Available

TABLES

INSTITUTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Temple	60	85	89	90	43	69	60	96	95	56	71	82	91	75
Tennessee	84	98	65	70	75	53	71	94	91	80	91	54	83	76
Texas	7	7	6	5	7	3	5	2	2	7	6	53	28	6
Texas A & M	78	46	30	68	48	45	45	25	29	51	36	9	9	24
Toronto	10	2	49	16	5	2	2	7	7	4	5	40	35	11
Tulane	79	65	75	88	82	81	69	60	60	87	77	85	48	66
Utah	43	97	34	91	83	85	74	77	76	86	83	87	36	98
Vanderbilt	72	71	85	83	53	61	58	81	80	78	78	62	60	62
Virginia	26	31	8	45	29	23	27	26	27	30	29	42	30	33
Virginia Polytechnic	88	68	2	42	70	72	91	56	58	91	67	43	99	40
Washington	14	8	1	18	12	16	14	21	21	15	18	3	90	7
Washington State	94	99	39	24	97	77	76	73	73	76	69	65	86	55
Washington, St. Louis	49	91	78	85	59	59	66	61	59	74	49	38	26	36
Waterloo	97	72	103	77	92	44	70	84	85	59	75	84	75	N/A
Wayne State	48	52	69	80	71	66	72	47	48	48	52	8	94	72
Western Ontario	77	36	72	66	73	22	39	41	41	36	48	57	76	49
Wisconsin	13	13	21	11	11	15	11	13	13	11	9	4	3	8
Yale	2	6	47	6	3	4	6	8	8	6	7	63	53	21
York	82	69	71	58	84	50	65	71	72	54	57	78	80	92

N/A - Not Available

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- over 9,000	6- 4,000-4,999
2- 8,000-8,999	7- 3,000-3,999
3- 7,000-7,999	8- 2,000-2,999
4- 6,000-6,999	9- 1,000-1,999
5- 5,000-5,999	

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	10,707,266	50	Rochester	1,969,702	
2	2	Yale	8,044,765	51	Hawaii	1,950,795	
4	3	Illinois	6,615,550	52	MIT	1,947,072	
	4	Calif., Berkeley	6,504,230	53	Kentucky	1,928,058	
5	5	Michigan	5,661,789	54	Brown	1,919,415	
	6	Columbia	5,377,006	55	Arizona State	1,912,141	
	7	Texas	5,209,536	56	Calif., Davis	1,910,374	
	8	Stanford	5,177,088	57	Connecticut	1,865,136	
	9	Calif., Los Angeles	5,150,678	58	Emory	1,833,919	
	10	Toronto	5,040,357	59	Southern Illinois	1,800,076	
6	11	Chicago	4,794,104	60	Temple	1,787,130	
	12	Cornell	4,769,127	61	Georgia Tech	1,780,028	
	13	Wisconsin	4,390,437	62	Brigham Young	1,680,268	
	14	Washington	4,296,319	63	Oregon	1,639,745	
	15	Indiana	4,241,777	64	Calif., San Diego	1,632,472	
	16	Minnesota	4,127,798	65	Maryland	1,622,626	
7	17	Ohio State	3,892,249	66	Delaware	1,615,047	
	18	Princeton	3,636,334	67	Purdue	1,593,668	
	19	Duke	3,381,760	68	Calif., Santa Barbara	1,583,613	
	20	Pennsylvania	3,193,015	69	Florida State	1,578,811	
	21	North Carolina	3,062,737	70	Notre Dame	1,576,606	
	22	Northwestern	3,044,725	71	Nebraska	1,573,923	
8	23	Michigan State	2,992,904	72	Vanderbilt	1,567,217	
	24	Arizona	2,937,183	73	Alabama	1,559,141	
	25	New York	2,815,357	74	Dartmouth	1,558,380	
	26	Virginia	2,622,969	75	Iowa State	1,553,830	
	27	Iowa	2,578,059	76	Queen's	1,543,643	
	28	Pittsburgh	2,552,031	77	Western Ontario	1,541,178	
	29	Pennsylvania State	2,530,401	78	Texas A & M	1,540,910	
	30	Johns Hopkins	2,432,253	79	Tulane	1,528,875	
	31	Florida	2,416,520	80	Kent State	1,523,774	
	32	Alberta	2,398,709	81	Boston	1,495,764	
	33	Kansas	2,398,702	82	York	1,490,736	
	34	British Columbia	2,350,101	83	Guelph	1,486,558	
	35	Southern California	2,332,214	84	Tennessee	1,483,318	
	36	Georgia	2,316,499	85	Miami	1,474,762	
	37	SUNY-Buffalo	2,250,226	86	Georgetown	1,466,086	
	38	McGill	2,236,653	87	Case Western Reserve	1,446,600	
	39	Missouri	2,206,104	88	Virginia Polytechnic	1,442,663	
	40	Rutgers	2,140,698	89	SUNY-Stony Brook	1,424,923	
	41	Syracuse	2,122,453	90	Cincinnati	1,415,841	
	42	Louisiana State	2,084,449	91	Houston	1,408,740	
	43	Utah	2,076,366	92	Colorado State	1,401,844	
	44	South Carolina	2,059,709	93	Howard	1,384,158	
	45	Oklahoma	2,039,620	94	Washington State	1,384,073	
	46	Colorado	2,009,696	95	Oklahoma State	1,370,164	
	47	Massachusetts	2,002,460	96	McMaster	1,352,332	
9	48	Wayne State	1,996,618	97	Waterloo	1,331,751	
	49	Washington, St. Louis	1,989,816	98	Manitoba	1,324,128	
				99	Rice	1,189,015	
				100	New Mexico	1,170,411	
				101	Saskatchewan	1,168,036	
				102	Calif., Riverside	1,161,431	
				103	North Carolina State	1,138,120	
				104	Calif., Irvine	1,120,910	
				105	SUNY-Albany	1,094,005	

RANK ORDER TABLE 2: VOLUMES ADDED (GROSS)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 240,000 and over	6- 90,000-119,999
2- 210,000-239,999	7- 60,000- 89,999
3- 180,000-209,999	8- 30,000- 59,999
4- 150,000-179,999	9- under 29,999
5- 120,000-149,999	

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Calif., Berkeley	241,688	51	Hawaii	65,298	
2	2	Toronto	210,309	52	Wayne State	64,721	
	3	Illinois	210,130	53	Syracuse	64,267	
3	4	Calif., Los Angeles	203,652	54	Georgetown	63,351	
4	5	Harvard	178,297	55	McGill	63,265	
	6	Yale	175,623	56	South Carolina	62,829	
	7	Texas	174,634	57	Oklahoma	61,363	
5	8	Washington	148,004	58	Rochester	61,305	
	9	Stanford	145,725	59	Rutgers	61,146	
	10	Indiana	141,978	60	Delaware	60,965	
	11	Pennsylvania State	137,109	8	61	McMaster	59,350
	12	Princeton	123,993	62	Johns Hopkins	59,300	
	13	Wisconsin	121,685	63	Iowa State	59,158	
	14	Ohio State	120,180	64	Missouri	58,565	
6	15	Cornell	119,467	65	Tulane	58,441	
	16	Georgia Tech	119,117	66	Emory	58,144	
	17	North Carolina	118,048	67	MIT	57,678	
	18	Michigan	115,645	68	Virginia Polytechnic	56,966	
	19	Columbia	113,319	69	York	56,258	
	20	Chicago	113,234	70	Boston	54,739	
	21	Michigan State	103,386	71	Vanderbilt	54,568	
	22	Arizona	100,428	72	Waterloo	54,435	
	23	Minnesota	99,563	73	Oregon	53,471	
	24	Calif., Davis	96,462	74	Calif., Irvine	53,395	
	25	Arizona State	93,012	75	Calif., Santa Barbara	53,260	
	26	British Columbia	92,410	76	Miami	53,106	
	27	Alberta	92,214	77	Nebraska	52,913	
	28	Georgia	90,704	78	Kentucky	51,523	
7	29	Iowa	88,818	79	SUNY-Stony Brook	51,487	
	30	Southern California	87,318	80	Alabama	51,391	
	31	Virginia	86,975	81	Manitoba	51,053	
	32	Duke	84,600	82	North Carolina State	50,235	
	33	Northwestern	81,186	83	Cincinnati	49,804	
	34	Pittsburgh	80,206	84	Maryland	49,211	
	35	Pennsylvania	79,924	85	Temple	49,112	
	36	Western Ontario	79,913	86	Queen's	49,024	
	37	SUNY-Buffalo	75,892	87	New Mexico	48,275	
	38	Calif., San Diego	75,600	88	Southern Illinois	48,100	
	39	Kansas	75,370	89	Colorado State	48,050	
	40	Guelph	74,086	90	Brown	46,655	
	41	Howard	72,368	91	Washington, St. Louis	46,645	
	42	Louisiana State	70,681	92	Dartmouth	45,316	
	43	Florida	69,487	93	Saskatchewan	43,366	
	44	Houston	69,339	94	Rice	43,050	
	45	Brigham Young	69,175	95	Calif., Riverside	42,382	
	46	Texas A & M	67,919	96	Kent State	40,834	
	47	New York	66,984	97	Utah	40,054	
	48	Connecticut	66,930	98	Tennessee	39,442	
	49	Purdue	66,680	99	Washington State	39,353	
	50	Massachusetts	66,391	100	Colorado	38,119	
				101	Notre Dame	35,777	
				102	SUNY-Albany	33,955	
				103	Oklahoma State	30,817	
				9	104	Florida State	29,700
				105	Case Western Reserve	20,602	

RANK ORDER TABLE 3: MICROFORM HOLDINGS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 3,500 and over	5- 1,500-1,999
2- 3,000-3,499	6- 1,000-1,499
3- 2,500-2,999	7- 500- 999
4- 2,000-2,499	8- under 500

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Washington	4,105,691	53	Pittsburgh	1,806,202	
	2	Virginia Polytechnic	3,642,361	54	Connecticut	1,779,160	
2	3	Harvard	3,324,701	55	New York	1,759,663	
	4	Calif., Los Angeles	3,322,357	56	Princeton	1,750,875	
	5	Cornell	3,252,226	57	Cincinnati	1,698,065	
	6	Texas	3,128,185	58	Pennsylvania State	1,684,393	
	7	Stanford	3,053,804	59	Pennsylvania	1,623,229	
3	8	Virginia	2,980,756	60	Oklahoma	1,612,791	
	9	Calif., Berkeley	2,975,316	61	Southern California	1,576,766	
	10	Columbia	2,956,716	62	Nebraska	1,562,891	
	11	British Columbia	2,939,871	63	Rice	1,548,460	
	12	Georgia	2,879,826	64	Howard	1,547,807	
	13	Missouri	2,879,181	65	Tennessee	1,539,197	
	14	Michigan	2,838,784	66	Iowa State	1,526,413	
	15	Kentucky	2,778,916	6	67	Indiana	1,486,508
	16	SUNY-Buffalo	2,714,272		68	Dartmouth	1,480,125
	17	Arizona	2,678,536		69	Wayne State	1,461,803
	18	Colorado	2,644,748		70	Oklahoma State	1,454,504
	19	Houston	2,586,306		71	York	1,436,852
4	20	Florida State	2,482,300		72	Western Ontario	1,433,751
	21	Wisconsin	2,447,680		73	MIT	1,430,521
	22	Florida	2,418,126		74	Kansas	1,420,615
	23	New Mexico	2,369,941		75	Tulane	1,412,864
	24	Syracuse	2,332,823		76	Purdue	1,401,118
	25	Rochester	2,296,827		77	Johns Hopkins	1,377,717
	26	Southern Illinois	2,275,340		78	Washington, St. Louis	1,365,819
	27	Iowa	2,270,464		79	Saskatchewan	1,349,893
	28	North Carolina State	2,231,339		80	Northwestern	1,318,668
	29	Ohio State	2,207,192		81	Georgetown	1,297,461
	30	Texas A & M	2,192,257		82	Emory	1,267,230
	31	SUNY-Stony Brook	2,164,377		83	Calif., Irvine	1,241,152
32	Hawaii	2,163,318	84	Massachusetts	1,236,085		
33	Illinois	2,127,102	85	Vanderbilt	1,159,195		
34	Utah	2,073,361	86	Oregon	1,156,073		
35	South Carolina	2,065,880	87	Queen's	1,143,214		
36	Boston	2,063,280	88	Delaware	1,129,584		
37	SUNY-Albany	2,056,153	89	Temple	1,128,292		
38	Michigan State	2,036,961	90	Duke	1,113,556		
39	Washington State	2,020,578	91	Alabama	1,111,963		
40	Louisiana State	2,013,987	92	Brigham Young	1,103,952		
5	41	Maryland	1,969,721	93	Calif., San Diego	1,037,980	
	42	North Carolina	1,967,183	7	94	Kent State	997,189
	43	Calif., Santa Barbara	1,962,495		95	Calif., Riverside	982,769
	44	Calif., Davis	1,960,831		96	Chicago	955,290
	45	Georgia Tech	1,913,680		97	McMaster	953,510
	46	Alberta	1,896,946		98	Colorado State	920,299
	47	Yale	1,883,310		99	Guelph	873,335
	48	Minnesota	1,857,742		100	Brown	840,759
	49	Toronto	1,851,742		101	Manitoba	718,069
	50	Arizona State	1,845,281		102	Notre Dame	629,595
	51	Miami	1,828,507		103	Waterloo	616,723
	52	Rutgers	1,826,050		104	McGill	602,179
8	105	Case Western Reserve	489,537				

RANK ORDER TABLE 4: CURRENT SERIALS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 90,000 and over	6- 40,000-49,999
2- 80,000-89,999	7- 30,000-39,999
3- 70,000-79,999	8- 20,000-29,999
4- 60,000-69,999	9- 10,000-19,999
5- 50,000-59,999	10- under 10,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	101,000	51	MIT	20,318	
	2	Calif., Berkeley	99,582		52	Iowa State	20,309
	3	Illinois	93,913		53	Calif., Santa Barbara	20,237
2	4	Calif., Los Angeles	80,507	54	Michigan State	20,121	
				55	Miami	20,030	
4	5	Texas	67,371	56	Pittsburgh	20,012	
	6	Yale	66,309	9	57	Southern Illinois	19,977
	7	Michigan	62,298		58	York	19,442
	8	Columbia	61,167		59	Maryland	19,357
			60		Missouri	19,298	
5	9	Cornell	54,461		61	Georgetown	19,143
					62	Nebraska	19,136
6	10	Georgia	49,599		63	Dartmouth	19,101
	11	Wisconsin	48,275		64	Delaware	18,608
	12	Calif., Davis	48,115		65	Cincinnati	18,525
	13	Stanford	47,316		66	Western Ontario	18,473
	14	Chicago	45,978	67	SUNY-Stony Brook	17,996	
	15	Minnesota	45,946	68	Texas A & M	17,900	
	16	Toronto	43,205	69	North Carolina State	17,833	
	17	North Carolina	40,747	70	Tennessee	17,592	
				71	Johns Hopkins	17,267	
				72	Emory	17,239	
7	18	Washington	39,619	73	Oregon	17,208	
	19	Princeton	39,361	74	Purdue	17,194	
	20	Southern California	38,598	75	Connecticut	17,166	
	21	British Columbia	34,689	76	South Carolina	17,001	
	22	Hawaii	33,889	77	Waterloo	16,968	
	23	Arizona	32,892	78	Oklahoma	16,621	
	24	Washington State	32,778	79	Brigham Young	16,513	
	25	Kentucky	31,257	80	Wayne State	16,138	
	26	Iowa	30,807	81	SUNY-Albany	16,108	
	27	Duke	30,103	82	Colorado State	16,079	
8	28	Calif., San Diego	29,852	83	Vanderbilt	16,029	
	29	Pennsylvania	29,716	84	Calif., Irvine	15,729	
	30	New York	29,454	85	Washington, St. Louis	15,358	
	31	Indiana	29,122	86	Brown	14,708	
	32	Kansas	28,720	87	Oklahoma State	14,702	
	33	Ohio State	28,594	88	Tulane	14,573	
	34	Georgia Tech	28,215	89	McGill	14,438	
	35	Boston	26,517	90	Temple	14,401	
	36	Pennsylvania State	25,870	91	Utah	14,335	
	37	Northwestern	25,571	92	Queen's	14,248	
	38	Houston	25,464	93	McMaster	14,181	
	39	Florida	24,056	94	Massachusetts	13,507	
	40	Louisiana State	23,193	95	Calif., Riverside	13,201	
	41	Arizona State	23,007	96	Alabama	13,076	
	42	Virginia Polytechnic	23,000	97	Rochester	12,829	
	43	SUNY-Buffalo	22,660	98	Notre Dame	12,703	
	44	Rutgers	22,196	99	Manitoba	11,793	
	45	Virginia	21,652	100	Rice	10,630	
	46	Syracuse	21,616	101	Case Western Reserve	10,322	
	47	Howard	21,453	10	102	New Mexico	9,687
	48	Colorado	21,333		103	Guelph	9,618
	49	Florida State	20,686		104	Saskatchewan	9,577
	50	Alberta	20,354		105	Kent State	8,852

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 225 and over	6- 100-124
2- 200-224	7- 75- 99
3- 175-199	8- 50- 74
4- 150-174	9- 25- 49
5- 125-149	

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	287	51	Kentucky	64	
3	2	Calif., Los Angeles	196	52	Louisiana State	64	
	3	Yale	180	53	Vanderbilt	64	
4	4	Stanford	155	54	Arizona State	63	
	5	Toronto	151	55	Manitoba	63	
5	6	Calif., Berkeley	147	56	South Carolina	63	
	7	Texas	138	57	Syracuse	63	
	8	Michigan	137	58	Hawaii	62	
	9	Columbia	132	59	Washington, St. Louis	62	
	10	Cornell	132	60	Connecticut	61	
	11	Wisconsin	131	61	Calif., San Diego	59	
6	12	Washington	122	62	Houston	58	
	13	Illinois	120	63	Miami	58	
	14	Minnesota	113	64	Southern Illinois	58	
	15	North Carolina	112	65	Case Western Reserve	57	
	16	British Columbia	108	66	Emory	56	
	17	Indiana	108	67	Florida State	55	
	18	Ohio State	103	68	Massachusetts	55	
	19	Pennsylvania State	101	69	Rochester	55	
	20	Northwestern	100	70	Virginia Polytechnic	55	
7	21	New York	97	71	Wayne State	55	
	22	Princeton	97	72	Calif., Santa Barbara	54	
	23	Pennsylvania	96	73	Western Ontario	54	
	24	Rutgers	96	74	Missouri	52	
	25	Florida	94	75	Tennessee	51	
	26	SUNY-Buffalo	92	76	Nebraska	50	
	27	Howard	90	9	77	Georgia Tech	49
	28	Arizona	89		78	SUNY-Albany	49
	29	Virginia	86		79	Iowa State	48
	30	MIT	85		80	SUNY-Stony Brook	48
	31	Southern California	84		81	Calif., Irvine	47
	32	Pittsburgh	83		82	Tulane	47
	33	Alberta	82		83	Utah	47
	34	Maryland	82		84	York	47
	35	Kansas	81		85	Alabama	46
	36	Iowa	78		86	Notre Dame	46
	37	Johns Hopkins	77		87	Oklahoma	46
	38	Michigan State	77		88	Kent State	45
	39	Chicago	75		89	Colorado	43
8	40	Georgia	74		90	Colorado State	43
	41	McGill	74		91	New Mexico	43
	42	Brigham Young	71		92	Waterloo	43
	43	Temple	71		93	Oregon	42
	44	Calif., Davis	68		94	Purdue	42
	45	Duke	68		95	North Carolina State	41
	46	Georgetown	67		96	Oklahoma State	41
	47	Cincinnati	66		97	Washington State	41
	48	Texas A & M	66		98	Queen's	40
	49	Brown	65		99	Saskatchewan	40
	50	Boston	64		100	Dartmouth	39
					101	Rice	38
					102	Delaware	36
					103	McMaster	36
					104	Guelph	35
					105	Calif., Riverside	32

RANK ORDER TABLE 6: NONPROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 450 and over	6- 200-249
2- 400-449	7- 150-199
3- 350-399	8- 100-149
4- 300-349	9- 50- 99
5- 250-299	10- 0- 49

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value	
1	1	Harvard	509	51	Calif., Santa Barbara	135		
	2	Toronto	476	52	Duke	135		
3	3	Texas	392	53	Tennessee	133		
	4	Yale	350	54	Kansas	132		
4	5	Stanford	334	55	Michigan State	130		
	6	Calif., Berkeley	304	56	Syracuse	130		
5	7	Illinois	295	57	SUNY-Buffalo	123		
	8	British Columbia	286	58	Cincinnati	127		
	9	Alberta	284	59	Washington, St. Louis	124		
	10	Columbia	284	60	Guelph	117		
	11	Michigan	270	61	Vanderbilt	116		
	12	Cornell	253	62	Kentucky	115		
	13	Pennsylvania State	259	63	Miami	115		
	14	Calif., Los Angeles	257	64	Saskatchewan	115		
	6	15	Wisconsin	236	65	SUNY-Stony Brook	115	
		16	Washington	235	66	Wayne State	114	
		17	Rutgers	231	67	Emory	111	
		18	Princeton	227	68	South Carolina	111	
		19	McGill	210	69	Temple	110	
		20	Indiana	205	70	Missouri	109	
7		21	Ohio State	198	71	North Carolina State	109	
	22	Western Ontario	198	72	Virginia Polytechnic	108		
	23	Virginia	197	73	Massachusetts	107		
	24	North Carolina	188	74	Iowa State	106		
	25	Johns Hopkins	183	75	Louisiana State	106		
	26	Arizona	181	76	Iowa	103		
	27	Arizona State	178	77	Washington State	103		
	28	Chicago	178	78	New Mexico	102		
	29	New York	178	79	Nebraska	101		
	30	Calif., Davis	177	80	Notre Dame	100		
	31	Pittsburgh	168	81	Tulane	100		
	32	Minnesota	165	9	82	Dartmouth	99	
	33	Florida	164		83	Connecticut	98	
	34	Purdue	164		84	Hawaii	98	
	35	Georgia	163		85	Utah	98	
	36	Queen's	162		86	Georgetown	96	
	37	Manitoba	159		87	Brown	94	
	38	Pennsylvania	156		88	Colorado	94	
	39	Calif., San Diego	155		89	Rochester	94	
	40	MIT	151		90	Calif., Riverside	92	
	41	Maryland	150		91	Florida State	92	
8	42	Houston	149		92	Southern Illinois	92	
	43	Howard	148		93	Delaware	91	
	44	Waterloo	148		94	Calif., Irvine	90	
	45	Texas A & M	145		95	Kent State	85	
	46	Boston	143	96	SUNY-Albany	84		
	47	Northwestern	142	97	Oregon	83		
	48	Southern California	140	98	Oklahoma	81		
	49	McMaster	137	99	Colorado State	78		
	50	York	136	100	Rice	78		
				101	Case Western Reserve	75		
			102	Alabama	66			
			103	Brigham Young	63			
			104	Oklahoma State	55			
			10	105	Georgia Tech	47		

RANK ORDER TABLE 7: TOTAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 650 and over	7- 350-399
2- 600-649	8- 300-349
3- 550-599	9- 250-299
4- 500-549	10- 200-249
5- 450-499	11- 150-199
6- 400-449	12- 100-149

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	962	51	51	Miami	260
	2	Toronto	711		52	Louisiana State	259
	3	Calif., Berkeley	680		53	Houston	257
2	4	Calif., Los Angeles	617		54	Purdue	256
	5	Texas	614	10	55	Iowa	249
	6	Yale	608		56	Duke	246
3	7	Stanford	580		57	Manitoba	245
	8	Columbia	550		58	Vanderbilt	245
4	9	Illinois	543		59	Southern Illinois	242
	10	Michigan	538		60	Temple	241
	11	Wisconsin	520		61	Georgetown	239
5	12	Indiana	487		62	Calif., Santa Barbara	232
	13	Cornell	483		63	Syracuse	232
	14	Washington	482		64	Queen's	227
6	15	Ohio State	449		65	York	227
	16	British Columbia	441	66	Washington, St. Louis	223	
	17	Pennsylvania State	420	67	Hawaii	221	
	18	Minnesota	408	68	Connecticut	220	
	19	Alberta	404	69	Tulane	220	
7	20	Rutgers	394	70	Waterloo	217	
	21	Princeton	382	71	Tennessee	215	
	22	North Carolina	376	72	Wayne State	215	
	23	Florida	368	73	Emory	213	
	24	Arizona	359	74	Utah	213	
8	25	Northwestern	346	75	SUNY-Stony Brook	210	
	26	New York	343	76	Washington State	210	
	27	Virginia	339	77	Brown	209	
	28	Georgia	324	78	Massachusetts	209	
	29	Chicago	322	79	Calif., Irvine	206	
	30	Pittsburgh	321	80	Florida State	206	
	31	Maryland	320	81	South Carolina	205	
	32	Southern California	319	82	Rochester	203	
	33	Michigan State	318	83	Missouri	202	
	34	McGill	316	84	Iowa State	200	
	35	Pennsylvania	312	11	85	New Mexico	196
	36	Brigham Young	309		86	Oklahoma	193
	37	Johns Hopkins	306		87	Colorado	192
	38	Calif., Davis	304		88	McMaster	189
9	39	Western Ontario	299		89	Kent State	184
	40	Kansas	294		90	Nebraska	184
	41	SUNY-Buffalo	290		91	Virginia Polytechnic	184
	42	Howard	289		92	Oregon	173
	43	Arizona State	287		93	Saskatchewan	173
	44	North Carolina State	281		94	Alabama	171
	45	Texas A & M	281		95	Dartmouth	171
	46	MIT	274	96	Case Western Reserve	167	
	47	Boston	273	97	Guelph	167	
	48	Calif., San Diego	273	98	Notre Dame	161	
49	Kentucky	270	99	Delaware	157		
50	Cincinnati	268	100	SUNY-Albany	156		
			101	Colorado State	151		
			102	Calif., Riverside	150		
			103	Oklahoma State	150		
			12	104	Rice	136	
				105	Georgia Tech	113	

RANK ORDER TABLE 8: MATERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 5,000 and over	6- 2,500-2,999
2- 4,500-4,999	7- 2,000-2,499
3- 4,000-4,499	8- 1,500-1,999
4- 3,500-3,999	9- 1,000-1,499
5- 3,000-3,499	10- under 1,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	7,067,186	8	51	Florida	2,276,279
	2	Texas	6,468,425		52	Johns Hopkins	2,268,077
	3	Stanford	5,351,514		53	Alabama	2,261,340
	4	Calif., Los Angeles	5,210,844		54	Georgetown	2,261,105
2	5	Calif., Berkeley	4,920,756		55	Pittsburgh	2,259,739
	6	Howard	4,781,220		56	Virginia Polytechnic	2,240,600
3	7	Toronto	4,491,332		57	Boston	2,240,239
	8	Yale	4,387,200		58	Houston	2,239,019
	9	Illinois	4,369,205		59	Oregon	2,220,282
	10	Cornell	4,236,515		60	Tulane	2,214,143
	11	Michigan	4,180,888		61	Washington, St. Louis	2,208,036
	12	Ohio State	4,172,343		62	Cincinnati	2,207,972
	13	Wisconsin	4,061,698		63	North Carolina State	2,188,156
4	14	North Carolina	3,845,460		64	Kentucky	2,167,235
	15	Columbia	3,711,320		65	Syracuse	2,131,135
	16	Minnesota	3,663,293		66	McGill	2,115,875
	17	Arizona	3,639,771		67	Missouri	2,034,687
	18	Indiana	3,503,907		68	Connecticut	2,026,615
5	19	Calif., Davis	3,482,744		69	SUNY-Stony Brook	2,020,032
	20	Princeton	3,296,773		70	Hawaii	2,005,032
	21	Washington	3,248,484	9	71	York	1,989,909
	22	British Columbia	3,245,061		72	Brown	1,988,542
	23	Pennsylvania State	3,205,349		73	Washington State	1,960,750
	24	Duke	3,157,168		74	Colorado	1,958,223
	25	Texas A & M	3,129,443		75	Rochester	1,945,796
	26	Virginia	3,104,587		76	Miami	1,930,878
	27	Georgia	3,095,473		77	Utah	1,911,763
	28	Iowa	3,079,409		78	Southern Illinois	1,905,635
	29	New York	3,060,203		79	Purdue	1,904,368
	30	Rutgers	3,054,407		80	Queen's	1,895,906
6	31	Southern California	2,924,593		81	Vanderbilt	1,882,801
	32	Louisiana State	2,887,651		82	Oklahoma	1,856,568
	33	Arizona State	2,852,184		83	South Carolina	1,847,574
	34	Kansas	2,833,007		84	Waterloo	1,825,957
	35	Calif., San Diego	2,727,372		85	Dartmouth	1,768,360
	36	Alberta	2,684,510		86	Nebraska	1,761,679
	37	Northwestern	2,583,419		87	Saskatchewan	1,742,748
	38	Chicago	2,549,954		88	MIT	1,733,853
	39	Pennsylvania	2,501,022		89	Calif., Riverside	1,726,632
7	40	Calif., Irvine	2,495,468		90	Manitoba	1,698,117
	41	Western Ontario	2,495,359		91	SUNY-Albany	1,643,821
	42	Maryland	2,446,071		92	Massachusetts	1,618,871
	43	Delaware	2,432,455		93	New Mexico	1,609,539
	44	Michigan State	2,431,985		94	Tennessee	1,594,032
	45	Iowa State	2,427,101		95	Guelph	1,563,705
	46	SUNY-Buffalo	2,376,963		96	Temple	1,558,746
	47	Wayne State	2,373,566		97	Rice	1,544,340
	48	McMaster	2,351,990		98	Colorado State	1,527,806
	49	Emory	2,322,809	10	99	Florida State	1,465,151
	50	Calif., Santa Barbara	2,312,738		100	Notre Dame	1,441,330
			101		Case Western Reserve	1,355,131	
			102		Georgia Tech	1,227,678	
			103		Oklahoma State	1,197,704	
				104	Kent State	825,629	

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 5,000 and over	6- 2,500-2,999
2- 4,500-4,999	7- 2,000-2,499
3- 4,000-4,499	8- 1,500-1,999
4- 3,500-3,999	9- 1,000-1,499
5- 3,000-3,499	10- under 1,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value	
1	1	Harvard	7,583,353	51	McMaster	2,420,597		
	2	Texas	6,654,393	52	Florida	2,395,376		
	3	Calif., Los Angeles	5,847,878	53	Georgetown	2,380,433		
	4	Stanford	5,691,013	54	Boston	2,361,686		
	5	Calif., Berkeley	5,506,887	55	Alabama	2,355,330		
	6	Howard	5,004,192	56	Houston	2,352,796		
2	7	Toronto	4,728,323	57	Johns Hopkins	2,339,904		
	8	Yale	4,655,300	58	Virginia Polytechnic	2,333,900		
	9	Illinois	4,527,736	59	Washington, St. Louis	2,322,312		
3	10	Cornell	4,476,023	60	Tulane	2,316,282		
	11	Michigan	4,423,163	61	Cincinnati	2,314,789		
	12	Ohio State	4,392,274	62	North Carolina State	2,311,441		
	13	Wisconsin	4,347,706	63	Oregon	2,305,412		
	14	North Carolina	4,075,807	64	Kentucky	2,266,844		
	15	Columbia	4,071,857	65	McGill	2,249,237		
	16	Minnesota	4,024,705	66	Syracuse	2,216,135		
	4	17	Arizona	3,880,603	67	Missouri	2,195,684	
18		Calif., Davis	3,800,840	68	Connecticut	2,155,485		
19		Indiana	3,695,538	69	Hawaii	2,135,512		
20		Princeton	3,624,194	70	SUNY-Stony Brook	2,121,900		
5		21	Washington	3,467,994	71	Brown	2,120,865	
	22	British Columbia	3,399,352	72	York	2,117,168		
	23	Pennsylvania State	3,383,587	73	Washington State	2,099,157		
	24	Rutgers	3,333,272	74	Rochester	2,062,305		
	25	Duke	3,330,520	75	Colorado	2,056,375		
	26	Georgia	3,310,009	76	Utah	2,055,006		
	27	Virginia	3,289,300	77	Miami	2,026,227		
	28	Iowa	3,283,753	78	Purdue	2,017,389		
	29	Texas A & M	3,281,849	79	Southern Illinois	2,014,557		
	30	New York	3,241,638	8	80	Vanderbilt	1,992,196	
	31	Arizona State	3,098,183		81	Queen's	1,980,579	
	32	Louisiana State	3,074,431		82	South Carolina	1,945,605	
	33	Southern California	3,058,519		83	Oklahoma	1,926,709	
	34	Calif., San Diego	3,043,775		84	Calif., Riverside	1,896,985	
6	35	Kansas	2,991,591		85	Waterloo	1,891,133	
	36	Alberta	2,843,957		86	Nebraska	1,860,942	
	37	Chicago	2,792,173		87	MIT	1,838,966	
	38	Northwestern	2,769,303		88	Dartmouth	1,816,281	
	39	Pennsylvania	2,753,160		89	Saskatchewan	1,812,082	
	40	Calif., Irvine	2,693,770	90	Manitoba	1,805,740		
	41	Western Ontario	2,612,320	91	Tennessee	1,703,356		
	42	Michigan State	2,603,641	92	SUNY-Albany	1,694,821		
	43	Maryland	2,592,416	93	New Mexico	1,689,947		
	44	Iowa State	2,583,632	94	Massachusetts	1,688,389		
	45	Calif., Santa Barbara	2,568,542	95	Temple	1,645,833		
	46	SUNY-Buffalo	2,551,819	96	Guelph	1,627,542		
	47	Delaware	2,547,459	97	Colorado State	1,609,538		
	7	48	Wayne State	2,482,692	98	Rice	1,589,535	
49		Emory	2,448,461	99	Florida State	1,545,654		
50		Pittsburgh	2,424,069	100	Notre Dame	1,543,070		
9		101	Case Western Reserve	1,421,829	10	104	Kent State	882,092
	102	Georgia Tech	1,318,025					
	103	Oklahoma State	1,283,579					

Brigham Young figure not published.

RANK ORDER TABLE 10: SALARIES AND WAGES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 10,000 and over	6- 5,000-5,999
2- 9,000-9,999	7- 4,000-4,999
3- 8,000-8,999	8- 3,000-3,999
4- 7,000-7,999	9- 2,000-2,999
5- 6,000-6,999	10- 1,000-1,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	14,932,919	50	Hawaii	3,776,557	
	2	Calif., Berkeley	12,668,406	51	Texas A & M	3,698,256	
	3	Stanford	12,182,214	52	Iowa	3,557,539	
	4	Toronto	12,125,112	53	Connecticut	3,552,625	
	5	Calif., Los Angeles	10,793,321	54	York	3,546,909	
2	6	Yale	9,829,300	55	Georgia	3,545,825	
				56	Temple	3,481,630	
3	7	Texas	8,904,523	57	Houston	3,463,135	
	8	Columbia	8,632,528	58	Southern Illinois	3,402,234	
	9	British Columbia	8,327,502	59	Waterloo	3,323,974	
4	10	Michigan	7,728,190	60	Calif., Irvine	3,300,285	
	11	Wisconsin	7,707,695	61	Massachusetts	3,285,742	
	12	Illinois	7,454,359	62	Purdue	3,275,969	
	13	Minnesota	7,381,432	63	Boston	3,258,959	
	14	Alberta	7,263,243	64	Miami	3,205,558	
	15	Washington	7,176,541	65	Louisiana State	3,180,417	
	16	Cornell	7,134,332	66	Syracuse	3,172,877	
5	17	Rutgers	6,958,896	67	Colorado	3,128,335	
	18	Ohio State	6,567,337	68	Rochester	3,114,233	
	19	Princeton	6,354,252	69	Saskatchewan	3,109,104	
	20	Pennsylvania State	6,204,596	70	Kentucky	3,084,574	
6	21	Indiana	5,861,779	71	SUNY-Stony Brook	3,059,079	
	22	New York	5,703,954	72	Queen's	3,027,799	
	23	Howard	5,701,115	73	Emory	3,013,621	
	24	McGill	5,667,221	74	Washington, St. Louis	3,012,056	
	25	North Carolina	5,465,352	9	75	McMaster	2,970,914
	26	Pennsylvania	5,439,189		76	Washington State	2,903,668
	27	Chicago	5,143,550		77	Brown	2,901,883
	28	Northwestern	5,119,859		78	Vanderbilt	2,897,501
	29	Calif., Davis	5,063,549		79	Iowa State	2,742,757
7	30	Virginia	4,860,478		80	Tennessee	2,703,270
	31	Southern California	4,753,431		81	Oregon	2,658,740
	32	Duke	4,622,469		82	Missouri	2,643,164
	33	Pittsburgh	4,552,928		83	Calif., Riverside	2,641,310
	34	Arizona	4,519,463		84	Guelph	2,633,965
	35	Michigan State	4,426,539		85	Kent State	2,633,104
	36	Western Ontario	4,413,011		86	Utah	2,616,190
	37	Calif., San Diego	4,399,744		87	Tulane	2,583,943
	38	Maryland	4,392,350		88	South Carolina	2,580,804
	39	Cincinnati	4,320,271		89	North Carolina State	2,568,603
	40	Calif., Santa Barbara	4,309,717	90	Oklahoma	2,519,924	
	41	MIT	4,231,341	91	Virginia Polytechnic	2,489,600	
	42	SUNY-Buffalo	4,108,764	92	Florida State	2,477,870	
	43	Manitoba	4,089,657	93	Colorado State	2,372,304	
	44	Johns Hopkins	4,028,646	94	New Mexico	2,366,797	
8	45	Florida	3,880,191	95	SUNY-Albany	2,290,522	
	46	Kansas	3,879,284	96	Case Western Reserve	2,282,160	
	47	Georgetown	3,841,563	97	Dartmouth	2,225,893	
	48	Wayne State	3,793,920	98	Nebraska	2,170,649	
	49	Arizona State	3,784,404	10	99	Delaware	1,990,542
			100		Rice	1,983,219	
			101		Notre Dame	1,964,014	
			102		Alabama	1,698,128	
			103		Oklahoma State	1,604,345	
			104	Georgia Tech	1,582,832		

Brigham Young figure not published.

RANK ORDER TABLE 11: TOTAL OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	14,000 and over	7-	8,000-8,999
2-	13,000-13,999	8-	7,000-7,999
3-	12,000-12,999	9-	6,000-6,999
4-	11,000-11,999	10-	5,000-5,999
5-	10,000-10,999	11-	4,000-4,999
6-	9,000-9,999	12-	3,000-3,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	24,658,246	9	51	Syracuse	7,220,928
	2	Calif., Los Angeles	21,903,711		52	Wayne State	7,202,792
	3	Stanford	20,911,513		53	Florida	7,102,170
	4	Calif., Berkeley	20,261,037		54	Louisiana State	6,980,560
	5	Toronto	17,443,209		55	Hawaii	6,949,686
	6	Texas	17,012,306		56	Houston	6,649,603
	7	Yale	16,981,300		57	York	6,533,440
	8	Columbia	14,473,663		58	Calif., Irvine	6,510,100
2	9	Wisconsin	13,976,686		59	Boston	6,482,692
	10	Howard	13,677,422		60	Connecticut	6,340,619
	11	Michigan	13,664,200		61	Manitoba	6,324,913
	12	Illinois	13,586,014		62	Rochester	6,275,745
	13	Cornell	13,556,623		63	Emory	6,234,637
3	14	Minnesota	12,958,002		64	Kentucky	6,165,091
	15	Ohio State	12,906,798		65	Brown	6,160,853
	16	British Columbia	12,900,674	10	66	Miami	5,994,315
4	17	Princeton	11,333,543		67	Virginia Polytechnic	5,992,600
	18	Washington	11,234,672		68	Southern Illinois	5,960,257
	19	Pennsylvania State	11,232,812		69	Washington State	5,835,168
	20	Rutgers	11,195,228		70	Purdue	5,832,067
	21	Alberta	11,118,256		71	Temple	5,724,838
5	22	North Carolina	10,918,375		72	McMaster	5,703,224
	23	Indiana	10,250,088		73	Iowa State	5,681,036
	24	New York	10,035,266		74	SUNY-Stony Brook	5,636,311
6	25	Calif., Davis	9,836,615		75	Waterloo	5,549,677
	26	Chicago	9,738,544		76	Colorado	5,547,590
	27	Pennsylvania	9,494,045		77	Tulane	5,408,901
	28	Arizona	9,451,386		78	Vanderbilt	5,388,636
	29	Virginia	9,322,348		79	Missouri	5,286,847
7	30	Southern California	8,941,331		80	Queen's	5,283,967
	31	Northwestern	8,856,390		81	Massachusetts	5,248,751
	32	Duke	8,735,878		82	North Carolina State	5,226,994
	33	Johns Hopkins	8,688,158		83	Utah	5,221,310
	34	Calif., San Diego	8,443,408		84	Oregon	5,206,241
	35	McGill	8,369,025		85	Saskatchewan	5,183,277
	36	Texas A & M	8,260,270		86	Calif., Riverside	5,079,138
	37	Michigan State	8,145,762		87	Oklahoma	5,039,285
	38	Kansas	8,142,703	11	88	South Carolina	4,930,643
	39	Calif., Santa Barbara	7,864,501		89	Delaware	4,870,634
8	40	Maryland	7,750,949		90	SUNY-Albany	4,855,004
	41	Cincinnati	7,735,300		91	Tennessee	4,780,791
	42	Arizona State	7,704,147		92	Kent State	4,771,587
	43	Pittsburgh	7,626,950		93	Nebraska	4,752,136
	44	Georgetown	7,567,484		94	Dartmouth	4,615,133
	45	SUNY-Buffalo	7,519,669		95	Guelph	4,482,574
	46	MIT	7,390,014		96	Alabama	4,477,393
	47	Georgia	7,355,431		97	Colorado State	4,389,608
	48	Western Ontario	7,289,350		98	New Mexico	4,376,083
	49	Washington, St. Louis	7,245,359		99	Florida State	4,307,314
	50	Iowa	7,232,277		100	Case Western Reserve	4,114,400
					101	Rice	4,096,256
					102	Notre Dame	4,050,388
				12	103	Georgia Tech	3,539,012
					104	Oklahoma State	3,366,496

Brigham Young figure not published.

RANK ORDER TABLE 12: TOTAL ITEMS LENT

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 50,000 and over	7- 20,000-24,999
2- 45,000-49,999	8- 15,000-19,999
3- 40,000-44,999	9- 10,000-14,999
4- 35,000-39,999	10- 5,000-9,999
5- 30,000-34,999	11- under 5,000
6- 25,000-29,999	

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Minnesota	148,028	9	51	Georgia Tech	14,777
	2	Illinois	121,930		52	Calif., San Diego	14,570
	3	Washington	112,769		53	Texas	14,555
	4	Wisconsin	94,732		54	Tennessee	14,364
2	5	Calif., Los Angeles	46,519		55	Alberta	14,113
					56	Oklahoma	13,332
3	6	Southern Illinois	43,141		57	Western Ontario	12,964
					58	Calif., Irvine	12,487
4	7	Case Western Reserve	38,275		59	Miami	12,482
	8	Wayne State	36,585		60	South Carolina	12,315
5	9	Texas A & M	34,360		61	Northwestern	11,976
	10	Arizona	33,783		62	Vanderbilt	11,954
	11	Indiana	32,588		63	Yale	11,570
	12	Calif., Berkeley	32,083		64	Pennsylvania State	11,305
	13	Calif., Davis	30,195		65	Washington State	11,241
	14	Cincinnati	30,143		66	Manitoba	11,168
6	15	McGill	29,701		67	Colorado	11,008
	16	Iowa	28,777		68	Maryland	10,927
	17	Kansas	28,630		69	Oklahoma State	10,853
	18	Ohio State	27,541		70	Southern California	10,274
	19	Pittsburgh	27,063		71	Houston	10,181
	20	Harvard	25,934	10	72	New York	9,690
	21	Georgia	25,802		73	Pennsylvania	9,627
	22	North Carolina State	25,388		74	Massachusetts	9,615
7	23	Cornell	24,503		75	Kent State	9,599
	24	Emory	22,883		76	Oregon	9,544
	25	Duke	22,530		77	Dartmouth	9,526
	26	Connecticut	22,495		78	York	9,368
	27	Missouri	21,900		79	Colorado State	9,158
	28	Chicago	21,883		80	Calif., Santa Barbara	9,020
	29	SUNY-Buffalo	21,259		81	Purdue	8,998
	30	Florida	20,441		82	Temple	8,790
	31	Columbia	20,108		83	McMaster	8,416
8	32	Michigan	19,864		84	Waterloo	8,400
	33	Florida State	19,589		85	Tulane	8,391
	34	Rutgers	19,282		86	Delaware	8,267
	35	MIT	19,258		87	Utah	8,211
	36	North Carolina	19,128		88	Louisiana State	7,978
	37	Iowa State	18,572		89	Princeton	7,886
	38	Washington, St. Louis	18,538		90	Nebraska	7,757
	39	Kentucky	18,342		91	Hawaii	7,546
	40	Toronto	18,315		92	Saskatchewan	7,195
	41	SUNY-Stony Brook	17,672		93	New Mexico	7,020
	42	Virginia	17,324		94	Michigan State	6,445
	43	Virginia Polytechnic	16,938		95	Alabama	5,996
	44	Johns Hopkins	16,817		96	Boston	5,807
	45	Rochester	16,595		97	Georgetown	5,790
	46	Rice	16,418		98	Calif., Riverside	5,789
	47	Arizona State	16,287		99	Notre Dame	5,591
	48	British Columbia	16,097		100	Brown	5,466
	49	Stanford	15,816		101	Queen's	5,180
	50	SUNY-Albany	15,677	11	102	Brigham Young	4,873
					103	Syracuse	4,757
					104	Howard	4,321
					105	Guelph	3,728

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 17,000 and over	6- 7,000-8,999
2- 15,000-16,999	7- 5,000-6,999
3- 13,000-14,999	8- 3,000-4,999
4- 11,000-12,999	9- 1,000-2,999
5- 9,000-10,999	10- under 1,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Illinois	126,329	52	Colorado State	6,365	
	2	Kansas	17,413		53	Yale	6,272
	3	Wisconsin	17,014		54	Colorado	6,217
2	4	Johns Hopkins	16,366		55	Pittsburgh	6,142
	3	5	Arizona State		14,977	56	Calif., San Diego
6		Minnesota	14,256		57	SUNY-Buffalo	5,812
7		Oklahoma	13,448		58	Rochester	5,789
4	8	Florida	12,655		59	Calif., Davis	5,744
	9	Texas A & M	12,573		60	Vanderbilt	5,630
	10	Calif., Berkeley	11,815		61	Guelph	5,517
5	11	Pennsylvania	10,498		62	Houston	5,445
	12	Michigan	10,222	63	Purdue	5,372	
	13	Indiana	10,184	64	SUNY-Stony Brook	5,300	
	14	Cincinnati	9,986	65	Princeton	5,280	
	15	Dartmouth	9,912	66	Iowa	5,195	
	16	Saskatchewan	9,661	67	Iowa State	5,124	
	17	Brigham Young	9,537	68	Harvard	5,118	
	18	Pennsylvania State	9,137	69	South Carolina	5,076	
	19	SUNY-Albany	9,098	70	Oregon	5,068	
	20	Calif., Santa Barbara	9,023	71	Georgia	5,052	
6	21	Alberta	8,820	7	72	Florida State	4,952
	22	Calif., Riverside	8,552		73	Michigan State	4,763
	23	Calif., Irvine	8,517		74	Emory	4,751
	24	McGill	8,499		75	Waterloo	4,475
	25	Calif., Los Angeles	8,394		76	Western Ontario	4,415
	26	Washington, St. Louis	8,318		77	MIT	4,356
	27	Boston	8,305		78	Brown	4,352
	28	Texas	8,088		79	Southern Illinois	4,349
	29	British Columbia	8,010		80	York	4,263
	30	Virginia	7,900		81	Oklahoma State	4,248
	31	Case Western Reserve	7,854		82	Alabama	4,112
	32	Miami	7,842	83	Tennessee	4,078	
	33	Connecticut	7,760	84	Nebraska	4,027	
	34	Rutgers	7,732	85	North Carolina	3,951	
	35	Toronto	7,712	86	Washington State	3,866	
	36	Utah	7,685	87	Duke	3,785	
	37	Cornell	7,552	88	Louisiana State	3,756	
	38	Kent State	7,535	89	New Mexico	3,743	
	39	Kentucky	7,427	90	Washington	3,715	
	40	Missouri	7,219	91	Temple	3,666	
	41	Manitoba	7,190	92	Syracuse	3,626	
	42	Massachusetts	7,093	93	Chicago	3,523	
	43	Ohio State	7,066	94	Wayne State	3,400	
	44	New York	7,027	95	Notre Dame	3,398	
6	45	McMaster	6,822	96	North Carolina State	3,378	
	46	Stanford	6,753	97	Georgetown	3,235	
	47	Northwestern	6,746	8	98	Delaware	2,749
	48	Tulane	6,738		99	Virginia Polytechnic	2,738
	49	Arizona	6,587		100	Maryland	2,291
	50	Queen's	6,507		101	Southern California	2,226
	51	Columbia	6,429		102	Hawaii	2,157
			103	Howard	2,042		
			104	Georgia Tech	1,992		
			105	Rice	1,949		

RANK ORDER TABLE 14: CURRENT SERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 2,500 and over	7- 1,300-1,499
2- 2,300-2,499	8- 1,100-1,299
3- 2,100-2,999	9- 900-1,099
4- 1,900-2,099	10- 700- 899
5- 1,700-1,899	11- under 700
6- 1,300-1,499	

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	2,960,000	50	Houston	1,235,892	
2	2	Calif., Berkeley	2,413,661	51	Rochester	1,233,092	
	3	Stanford	2,383,298	52	Cincinnati	1,219,340	
	4	Calif., Los Angeles	2,340,247	53	Calif., Santa Barbara	1,218,055	
3	5	Michigan	2,184,695	54	Colorado	1,215,303	
	6	Texas	2,173,915	55	Washington State	1,207,937	
	7	Washington	2,151,268	56	Syracuse	1,207,362	
	8	Wisconsin	2,112,430	57	Michigan State	1,204,077	
	9	Columbia	2,104,126	58	Oklahoma	1,202,708	
4	10	Georgia	2,090,728	59	SUNY-Stony Brook	1,187,971	
	11	Toronto	2,029,394	60	South Carolina	1,179,710	
	12	Illinois	2,014,347	61	Missouri	1,171,765	
	13	Minnesota	1,981,498	62	Vanderbilt	1,167,444	
	14	Ohio State	1,980,754	63	Miami	1,156,182	
	15	Rutgers	1,980,742	64	SUNY-Albany	1,143,248	
	16	Calif., Davis	1,977,075	65	Georgetown	1,141,640	
	17	New York	1,940,401	66	Tulane	1,140,079	
5	18	Iowa	1,875,965	67	Connecticut	1,135,813	
	19	Southern California	1,857,708	68	Emory	1,135,076	
	20	Arizona	1,843,275	69	McGill	1,128,589	
	21	Yale	1,838,000	70	Nebraska	1,117,612	
	22	Pennsylvania State	1,769,948	71	Dartmouth	1,104,471	
	23	Duke	1,751,818	72	Wayne State	1,100,430	
6	24	Texas A & M	1,698,634	9	73	MIT	1,085,568
	25	Louisiana State	1,647,313	74	Florida State	1,074,006	
	26	North Carolina	1,632,844	75	Temple	1,070,629	
	27	Princeton	1,629,934	76	Tennessee	1,061,038	
	28	Howard	1,587,445	77	Calif., San Diego	1,036,216	
	29	Arizona State	1,566,686	78	Saskatchewan	1,028,052	
	30	SUNY-Buffalo	1,548,023	79	Case Western Reserve	1,026,157	
	31	Alberta	1,539,169	80	Colorado State	1,009,690	
	32	Northwestern	1,519,370	81	Oregon	1,008,345	
	33	Virginia	1,507,784	82	Queen's	988,767	
7	34	Florida	1,465,216	83	Delaware	976,782	
	35	Indiana	1,427,079	84	Hawaii	962,243	
	36	Washington, St. Louis	1,425,174	85	Manitoba	949,104	
	37	Kansas	1,409,121	86	Georgia Tech	947,246	
	38	Pennsylvania	1,398,148	87	Brown	937,894	
	39	North Carolina State	1,355,791	88	Rice	932,126	
	40	Virginia Polytechnic	1,337,800	89	Alabama	924,021	
	41	Chicago	1,303,544	90	McMaster	913,269	
8	42	Iowa State	1,293,799	10	91	Pittsburgh	865,952
	43	Kentucky	1,291,001	92	York	857,838	
	44	Boston	1,284,242	93	Calif., Irvine	841,550	
	45	Purdue	1,277,585	94	Massachusetts	836,877	
	46	Southern Illinois	1,272,238	95	Calif., Riverside	819,518	
	47	Maryland	1,271,967	96	New Mexico	817,136	
	48	Johns Hopkins	1,262,934	97	Oklahoma State	774,336	
	49	Western Ontario	1,252,372	98	Utah	758,396	
				11	99	Guelph	672,612
				100	Notre Dame	647,686	
				101	Kent State	319,747	

Figures for British Columbia, Cornell, and Waterloo not available; figure for Brigham Young not published.

Association of Research Libraries

1527 New Hampshire Avenue, N.W., Washington, D.C. 20036

(202) 232-2466

ARL STATISTICS 1983-84

Instructions for Completion of the Questionnaire

1. Definitions of the statistical categories used in this questionnaire can be found in Library Statistics: A Handbook of Concepts, Definitions and Terminology (Chicago: American Library Association, 1966).
2. All figures should be rounded to the nearest whole number.
3. In a university which includes both main and branch campuses, an effort should be made to report figures for the main campus only. (The U.S. National Center for Education Statistics in its Higher Education General Information Survey describes a branch campus as one "located in a community different from that of its parent institution ... beyond a reasonable commuting distance from the main campus ... The educational activities at the location must be organized on a relatively permanent basis ... and include course offerings for one or more complete college-level programs of at least one full year.") If figures for libraries located on branch campuses are reported, please provide an explanatory footnote on p. 3 of the questionnaire.
4. Questions 1-5. Use the ALA definition for "Volume" as noted in instruction 1 above. Include duplicates and bound volumes of periodicals. Exclude microforms, nonprint materials, uncataloged items, and government documents unless cataloged. (Government document volumes classed separately may be included if cataloged.) If any of these items must be included, please provide an explanatory footnote on p. 3 of the questionnaire.
5. Question 6. Include duplicate subscriptions and government document serials; exclude monographic and publishers' series. Because of the number of questions raised regarding the counting of serials, we call to your attention the definition to be used for this survey.

A publication issued in successive parts, usually at regular intervals, and as a rule, intended to be continued indefinitely. Serials include periodicals, newspapers, annuals (reports, yearbooks, etc.), memoirs, proceedings, and transactions of societies.

6. Questions 12-15 - Personnel. Report the number of staff in filled positions, or positions which are only temporarily vacant. Include staff hired for special projects and grants, but provide an explanatory footnote indicating the number of such staff on p. 3 of the questionnaire. The number of FTE staff should be determined on the basis of the length of the work week in the reporting library. Round figures to the nearest whole numbers.
7. Question 12. Since the criteria for determining professional status vary among libraries, there is no attempt to define the term "professional." Each library should report those staff members it considers professional, including, when appropriate, staff who are not librarians in the strict sense of the term, such as computer experts, systems analysts, budget officers, etc.



8. Questions 16-22 - Expenditures. The questionnaire assumes a fiscal year ending June 30, 1984. If your fiscal year is different, please provide a footnote on p. 3 of the questionnaire.

Report all expenditures of funds that come to the library from the regular institutional budget and from other sources, such as research grants, special projects, and fees for service. Record the amount of funds obtained from other sources in a footnote on p. 3.

Canadian libraries should report expenditures in both Canadian and U.S. dollars. To determine figures in U.S. dollars, divide Canadian dollar amounts by 1.2548, the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1983 - June 1984.

9. Question 17. Exclude monographic and publishers' series.
10. Question 20. Exclude fringe benefits. Include federal funds for work study students.
11. Question 21. Exclude expenditures for buildings, maintenance, and fringe benefits.
12. Questions 25-26 - Ph.D. Degrees. Please note that only the number of Ph.D. degrees are to be counted. Statistics on all other advanced degrees (e.g., D.Ed., D.P.A., M.D., J.D.) are not required for this survey. If you are unable to provide a figure for Ph.D.s only, please note this in a footnote on p. 3 of the questionnaire.
13. Question 26. For the purposes of this report, Ph.D. fields are equivalent to the several hundred specific discipline specialties enumerated in the form used by the U.S. Department of Education entitled, "Higher Education General Information Survey, Degrees . . . Conferred," designated as NCES Form 2300-2.1A-1.

Although the HEGIS form requests figures for all doctoral degrees, only fields in which Ph.D.s are awarded should be reported on the ARL questionnaire. Any exceptions should be noted in a footnote on p. 3 of the questionnaire.

14. Questions 27-30 - Enrollment. U.S. libraries should use figures reported to the Department of Education on the form entitled "Higher Education General Information Survey, Fall Enrollment and Compliance Report . . . 1983," designated as NCES Form 2300-2.3A. The line and column numbers on the HEGIS form for each category are noted on the questionnaire. Please check these figures against the enrollment figures reported to ARL in 1983 to ensure consistency and accuracy.
15. Reporting libraries are urged to record in the footnote section any information that would clarify the figures submitted, e.g., the inclusion of branch campus libraries. Explanatory footnotes will be included with the published statistics. Please make an effort to word your footnotes in a manner consistent with notes appearing in the published report, so that the ARL Office can interpret your footnotes correctly.
16. After the questionnaire has been completed please compare the figures with those submitted last year. On occasion, an error will be detected because of an unusual difference between numbers submitted this year and those for the preceding year.
17. Return one copy of the questionnaire to the ARL Office by October 5, 1984. If there are any questions about the procedure to be followed in completing this questionnaire, contact the ARL Office.

Association of Research Libraries

1527 New Hampshire Avenue, N.W., Washington, D.C. 20036

(202) 232-2466

ARL STATISTICS QUESTIONNAIRE, 1983-84

Reporting Library _____

Questionnaire Completed by (Name) _____

Phone Number _____ Date Returned to ARL _____

COLLECTIONS (See instructions 4-5)

1. Volumes held June 30, 1983 (Exclude microforms and govt. docs.)
(Record figure reported last year or footnote adjusted figure on p.3) _____
2. Volumes added during year - Gross
(Exclude microforms and govt. docs.) _____
3. Volumes withdrawn during year
(Exclude microforms and govt. docs.) _____
4. Volumes added during year - Net (Subtract line 3 from line 2) _____
5. Volumes held June 30, 1984 (Add line 1 to line 4) _____
6. Number of current serials, including periodicals, received
(See instruction 5) _____
7. Reels of microfilm held June 30, 1984 _____
8. Number of microcards held June 30, 1984 _____
9. Number of microprint sheets held June 30, 1984 _____
10. Number of microfiche sheets held June 30, 1984 _____
11. Total microform units held June 30, 1984 (Add lines 7, 8, 9, 10) _____

PERSONNEL (See instructions 6-7) (Round figures to nearest whole number)

12. Number of professional staff, FTE _____
13. Number of nonprofessional staff, FTE _____
14. Number of student assistants, FTE _____
15. Total FTE staff (Add lines 12, 13, 14) _____



ARL Statistics Questionnaire - Page 2

	<u>Dollars Canadian</u> (Canadian libraries only)	<u>Dollars U.S.</u> (Divide Canadian dollars by 1.2548)
<u>EXPENDITURES</u> (See instructions 8-11)		
16. Books, serials and other library materials	_____	_____
17. Current serials including periodicals (See instructions 5 and 9) (Subtotal of 16)	_____	_____
18. Binding	_____	_____
19. Total library materials and binding (Add lines 16, 18)	_____	_____
20. Total salaries and wages, including student assistants' wages (omit fringe benefits)	_____	_____
21. Other operating expenditures (See instruction 11)	_____	_____
22. Total library expenditures (Add lines 19, 20, 21)	_____	_____

INTERLIBRARY LOANS

23. Items loaned: Originals _____; Photocopies _____; Total _____

24. Items borrowed: Originals _____; Photocopies _____; Total _____

PH.D. DEGREES (See instructions 12-13)

25. Number of Ph.D.s awarded _____

26. Number of fields in which Ph.D.s can be awarded _____

ENROLLMENT - FALL 1983 (See instruction 14)

27. Total full-time students (line 14, columns 13 and 14) _____

28. Total FTE part-time students (line 28, column 15) _____

29. Total full-time graduate students
(line 11, columns 13 and 14) _____

30. Total FTE part-time graduate students
(line 25, column 15) _____

ARL Statistics Questionnaire - Page 3

FOOTNOTES FOR ARL STATISTICS, 1983-84

(Compare with footnotes from previous year as they appear in the published ARL Statistics.)

1. Law Library statistics are included.

☐

Yes

☐

No

☐

We do not have a Law Library.

2. Medical Library statistics are included.

☐

Yes

☐

No

☐

We do not have a Medical Library.

3. Other libraries not included:

4. Figures include reports from branch campus libraries. (See instruction 3.)

☐

Yes

☐

No

5. If branch campus libraries are included, please specify which campuses:

6. Basis of volume count is:

☐

Physical

☐

Bibliographical

7. Count of current serials (question 6) includes government document serials.

☐

Yes

☐

No

8. Fringe benefits are included in expenditures for salaries and wages (question 20).

☐

Yes

☐

No

9. Other comments:

Please return completed questionnaire to the ARL Office by October 5, 1984.

FOOTNOTES TO ARL STATISTICS, 1983-84

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
ALABAMA		All figures are as of September 30, 1984.
ALBERTA		Excludes Extension Library, Boreal Institute Library, St. Joseph's College Library, St. Jean Library, and Map Library.
	(5)	Includes periodicals and serials for the first time this year.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$3,368,524; (13) \$1,931,349; (14) \$200,073; (15) \$3,568,598; (16) \$9,113,917; (17) \$1,268,673; (18) \$13,951,187.
	(6-22)	Figures are as of March 31, 1984.
ARIZONA	(1)	Includes government documents received through 1978.
	(16)	Includes fringe benefits.
	(16,17)	Includes special grant funds of \$194,926 for salaries and wages and \$11,850 for other operating expenditures.
BOSTON		Includes the Theology Library.
		Ph.D. count includes all doctorates other than M.D. and D.M.D. Count of Ph.D. fields based on pre-1983 NCES classification.
BOSTON PUBLIC LIBRARY	(1)	1982-83 figure revised.
BRIGHAM YOUNG		Figures are as of August 31, 1984.
	(12-18)	Reported, but not published.
BRITISH COLUMBIA		Figures are as of March 31, 1984.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
BRITISH COLUMBIA (con't)	(12-18)	Expenditures reported in Canadian dollars were: (12) \$4,071,902; (13) N/A; (14) \$193,605; (15) \$4,265,507; (16) \$10,449,350; (17) \$1,472,909; (18) \$16,187,766.
BROWN		Includes John Carter Brown Library and Annmary Brown Library.
	(1)	1982-83 figure revised.
	(22)	Includes Federal grants and contracts.
CALIF., DAVIS		Includes Harrison Western Research Center Library Collection of 16,562 bound volumes and 57 non-document serials not included in previous reports.
CALIF., LOS ANGELES	(1)	1982-83 figure revised.
	(1-3)	Initial volume count in 1940s was bibliographical; subsequent counts of added volumes have been physical.
CALIF., RIVERSIDE	(12)	Includes donations and budgeted funds.
	(16)	Includes \$37,560 in federal work study funds.
	(17)	Includes \$24,211 in grant funds.
CALIF., SAN DIEGO	(1)	1982-83 figure revised.
	(17)	Includes \$13,959 in grant/gift funds.
	(22)	Includes 8 FTE hired for special projects and grants.
CANADA INST. FOR SCI. & TECH. INFO.		All figures are as of March 31, 1984.
		Includes 14 branch libraries throughout Canada which serve the divisions of the National Research Council of Canada, CISTI's parent organization.
	(16)	Includes fringe benefits.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$7,240,364; (13) N/A; (14) \$115,000; (15) \$7,355,364; (16) \$6,019,000; (17) \$6,176,000; (18) \$19,550,364.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
CASE WESTERN RESERVE	(1)	1982-83 figure revised.
	(1-3)	Count is physical for some libraries and bibliographical for others.
	(12)	Includes \$58,265 in endowments, gifts, and grants.
	(17)	Includes \$62,734 in ILL Photocopy credits and \$10,258 online search credits.
CHICAGO	(1-3)	Includes a bibliographical count of microforms.
	(22)	Includes 52 FTE staff on special grants.
CINCINNATI	(20,21)	Includes Title II-C grant funds for retrospective conversion project as follows: (20) \$57,439; (21) \$140,847.
	(21)	Includes \$311,798 for first steps in installing online catalog system.
COLORADO	(16)	Includes \$209,216 from work study funds.
	(21)	Includes 29 FTE paid from work study funds.
COLORADO STATE	(16)	Includes fringe benefits.
COLUMBIA	(1)	1982-83 figure revised.
	(19,20,21)	Does not include 9 professional, 22 nonprofessional, and 6 student assistants paid from special restricted funds.
CORNELL		Includes Geneva Experiment Station.
DARTMOUTH	(1)	Includes government documents.
	(5)	Includes cataloged government documents.
DELAWARE	(22)	Does not include major outlay for construction and equipment.
DUKE	(1)	1982-83 figure revised.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
EMORY	(12-22)	Figures are as of August 31, 1984.
	(16)	Includes \$54,812 in work study funds.
FLORIDA	(18)	Grant funds totaling \$608,101 were not included because funds were contracted out to 10 other universities as a part of a cooperative grant and not spent locally.
FLORIDA STATE		Excludes Development Research School; includes branch campus in Panama City.
	(1-4)	Figures include branch campus in Panama City reported for the first time.
	(16)	Includes some fringe benefits.
GEORGETOWN		Excludes Center for Population Research (2,000 volumes).
	(1)	1982-83 figure revised.
	(17)	Library computer costs of \$43,001 are not included as they are not charged to the Library's budget.
GEORGIA		Includes experiment stations at Griffin, Tifton, Skidaway, and Sapelo.
GEORGIA TECH	(1)	Includes government documents and some cataloged microforms. Microforms included in volume count excluded in microform count.
GUELPH		All figures are as of April 30, 1984.
	(1)	Includes government documents. 1982-83 figure revised to include 4,039 cataloged archival items.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$1,962,137; (13) \$843,993; (14) \$80,103; (15) \$2,042,240; (16) \$3,305,100; (17) \$277,395; (18) \$5,624,735.
HARVARD		Includes research institutions in District of Columbia, Texas, and Italy.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
HARVARD (con't)	(18)	Separate figure for expenditures from grants and special projects not available. Expenditures do not include fringe benefits (\$2,755,332), building and maintenance charged to library budget (\$2,739,136), cost-recovery items (\$1,277,884). Total reported expenses including these items: \$31,430,598.
HAWAII		Excludes Industrial Relations Library, Hawaii Institute of Geophysics Library, and School of Public Health Reference Collection, all not under university library administration.
	(12)	Includes \$100,413 in federal grant funds.
	(17)	Includes \$37,632 in special grant funds.
HOUSTON		All figures are as of August 31, 1984.
	(5)	Includes government documents not included in previous years' reports.
INDIANA	(1)	1983-84 figure revised.
IOWA	(5)	Includes only those government documents received on paid subscriptions.
	(13)	Expenditures for monographic serials not available.
	(18)	Includes \$52,219 in gifts, \$116,889 in federal grant funds, and \$41,609 in project funds.
	(20)	Includes .5 FTE paid from grant funds.
	(19-22)	Includes staff on special RECON project.
JOHNS HOPKINS		Includes Peabody Conservatory Library, Welch Medical Library, School of Hygiene and Public Health Library, Applied Physics Laboratory Library, and School of Advanced International Studies in Washington, D.C. and Bologna, Italy.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
JOHNS HOPKINS (con't)	(22)	Includes funds obtained from other sources amounting to \$717,960.
KANSAS		Includes School of Medicine in Kansas City.
	(1-3,6-11)	Includes History of Medicine Library collection, which is not included in other figures.
	(19-22)	Includes 7 FTE professionals, 3 FTE nonprofessionals, and 6.75 FTE student assistants that are grant funded positions.
		Count of Ph.D. fields includes one joint program with Kansas State, for a total of 51 fields at Lawrence campus and 10 at Medical Center in Kansas City.
KENTUCKY	(21)	Includes 37 FTE students paid through work study funds (including some non-library units).
	(19,20,21)	Includes 1 FTE professional, .5 FTE nonprofessional, and .6 FTE students paid from grant funds.
KENT STATE	(2)	Includes cataloged government documents.
	(16)	Does not include Federal work-study funds.
	(16-22)	Figures include Audiovisual Services, Computer Assisted Instruction, and Teleproductions.
	(17)	Includes fringe benefits.
		Ph.D.'s awarded include all doctoral degrees.
LIBRARY OF CONGRESS	(5)	Estimated figure.
LINDA HALL		All figures are as of December 31, 1983.
	(6-8)	Method of counting changed to include appropriate categories of transactions not reported in previous years.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
LOUISIANA STATE		Includes Veterinary Medicine Library.
	(1)	Included bound government documents.
	(20)	Includes 3 FTE paid from federal funds for SEARL Serials Project.
McGILL		All figures are as of May 31, 1984.
	(1)	1982-83 figure revised.
	(12)	Includes Can. \$400,000 in special funds.
	(16)	Includes Can. \$141,594 for contracted security services.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$2,655,000; (13) \$1,416,154; (14) \$167,343; (15) \$2,822,343; (16) \$7,111,229; (17) \$567,881; (18) \$10,501,453.
McMASTER		All figures are as of April 30, 1984.
	(1)	1982-83 figure revised.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$2,951,277; (13) \$1,145,970; (14) \$86,088; (15) \$3,037,365; (16) \$3,727,903; (17) \$391,138; (18) \$7,156,406.
MANITOBA		All figures are as of March 31, 1984.
	(1)	1982-83 figure revised.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$2,130,797; (13) \$1,190,936; (14) \$135,045; (15) \$2,265,842; (16) \$5,131,702; (17) \$538,957; (18) \$7,936,501.
	(12,13,16,17)	Includes grants (in Canadian dollars): (12) \$43,098; (13) \$948; (16) \$46,406; (17) \$13,855.
	(19,20)	Includes 2 FTE professionals and 1 FTE nonprofessional paid through grant funds.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
MARYLAND		College of Library and Information Services data are included for collections and expenditures (except salaries and wages), but not for personnel.
	(16,21)	Expenditures for federal work study students are not included, but these students are included in the calculation of FTE student assistants.
		Ph.D. count includes all doctoral fields.
MASSACHUSETTS	(5)	Includes some government documents which are cataloged separately from the Government Documents Collection.
MIT	(18)	Includes \$335,910 in grant funds.
	(19,20)	Includes 8 FTE professionals and 3.1 FTE nonprofessionals paid through grant funds.
MIAMI	(16)	Excludes Director's salary.
	(17)	Includes other sources of revenue as follows: service fees \$147,605; special projects \$98,392; grants \$7,704; and gifts and endowments \$160,543
MICHIGAN		Excludes Dearborn Campus Library, William L. Clements Library, and the University of Michigan, Flint Library.
	(1)	Includes microforms held in the Transportation Research Institute.
	(16)	Transportation Research Institute personnel budget is covered by parent institution except for \$55.78.
MICHIGAN STATE	(19)	Includes 2.5 FTE paid from grant funds.
MINNESOTA	(1)	1982-83 figure revised.
MISSOURI	(5)	Government documents included for Law Library only.
	(17)	Includes \$116,790 from Copy Service and system-wide funds for retrospective conversion.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
NAT. AGRIC. LIB.		U.S.D.A. field libraries not included. Figures are as of September 30, 1984.
	(16)	Includes fringe benefits.
NAT. LIB. OF CANADA		Figures for holdings, interlibrary loans, and expenditures are as of March 31, 1984.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$2,270,276; (13) \$336,402; (14) \$59,900; (15) \$2,330,176; (16) \$15,699,313; (17) \$11,740,922; (18) \$29,770,411.
	(19-22)	Figures represent headcount not FTE.
NAT. LIB. OF MED.	(12-22)	Statistics on personnel and expenditures reflect the Library Operations component of the National Library of Medicine, namely: Reference Services Division, Bibliographic Services Division, Technical Services Division, History of Medicine Division, Medical Subject Headings Section, and the Office of the Associate Director for Library Operations. Figures also include Library's Office of Computer and Communications Systems and the Specialized Information Services components for the first time this year.
NEBRASKA	(5)	Includes cataloged government documents.
	(17)	Includes \$53,689 from Title II-C grant funds.
NEWBERRY	(14)	Covers in-house bindery and associated costs. According to in-house cost accounting, the expenditure for binding is \$126,349.
NEW MEXICO	(12)	Includes approximately \$133,617 in OCLC expenditures.
NEW YORK	(12-18)	All figures as of August 31, 1984.
NEW YORK PUBLIC	(5)	Beginning in 1976, serial count comprised both serials and periodicals. Prior to 1976 only periodical titles were

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
NEW YORK PUBLIC (con't)		reported. Includes current and dead titles; no separate count kept of current cataloged titles.
	(12-18)	1983-84 expenditure figures not yet available. Figures given are for 1982-83.
NEW YORK STATE LIB.		All figures as of March 31, 1983.
	(1)	Includes government documents.
NORTH CAROLINA		Includes Institute of Marine Sciences Library for the first time.
	(19, 20)	Includes 6.5 FTE professionals and 2.5 FTE nonprofessionals on special grant funds.
	(18)	Includes \$1,843,959 in grant, trust, and other special funds.
NORTH CAROLINA STATE		Includes Veterinary Medical Library.
NORTHWESTERN		Includes Dental Library.
		All figures are as of August 31, 1984.
	(5)	Excludes monographic series for the first time this year.
	(12-18)	Includes project and grant funds as follows: (12) \$104,924; (16) \$85,549 and \$248,247 of federal work study funds; (17) \$184,955.
	(16)	Includes \$20,323 in extra costs due to a non-recurring change in the student payroll cycle during 1983/84.
	(19-22)	Includes 2.2 FTE professionals, .6 FTE nonprofessional, and 6 FTE students on special projects.
NOTRE DAME	(4)	Does not include microforms in various departmental collections.
OHIO STATE		Includes University Archives.
	(17)	Does not include \$360,000 in expenditures paid by University Computer Center.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
OHIO STATE (con't)	(19-22)	Includes 2 FTE professionals, 1.3 FTE nonprofessionals, 1.6 FTE students on special grant funds.
OKLAHOMA	(1)	1982-83 figure revised.
OKLAHOMA STATE		Excludes OSU Technical Institute in Oklahoma City and OSU School of Technical Training in Okmulgee.
OREGON	(13)	Excludes duplicate subscriptions.
	(18)	Includes \$23,218 in grant and gift funds.
PENNSYLVANIA STATE		Includes main campus and branches at Allentown, Altoona, Beaver, Berks, Delaware Co., DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Ogontz, Schuylkill, Scranton, Shenango Valley, Wilkes-Barre, York, Behrend College, and King of Prussia Center for Graduate Studies. Excludes Capitol Campus at Middletown, Pennsylvania.
	(17)	Includes \$205,184 for computer upgrade and \$248,841 of special project funds for automation program.
PITTSBURGH		Excludes branch campus libraries at Johnstown, Greensburg, Bradford, and Titusville.
	(1)	1982-83 figure revised. Includes cataloged government documents.
	(12-18)	Includes \$104,698 from gifts, grants, and endowments.
QUEEN'S		Figures are as of April 30, 1984.
		Excludes Library of the Industrial Relations Centre.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$2,378,983; (13) \$1,240,705; (14) \$106,248; (15) \$2,485,231; (16) \$3,799,282; (17) \$345,809; (18) \$6,630,322.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
RICE	(16)	Includes positions funded by external grants, contracts, and transfers from other university budgets and cost centers.
ROCHESTER		Includes Sibley Music Library of Eastman School of Music.
RUTGERS		Figures include services to a non-Rutgers medical school, colleges and professional schools in Camden, Newark, and New Brunswick.
SASKATCHEWAN		Excludes Theological College libraries on campus that are not part of the library system.
	(12-18)	Figures as of April 30, 1984. Expenditures reported in Canadian dollars were: (12) \$2,186,800; (13) \$1,290,000; (14) \$87,000; (15) \$2,273,800; (16) \$3,901,304; (17) \$328,872; (18) \$6,503,976.
SMITHSONIAN		All figures are as of September 30, 1983.
		Includes Smithsonian Astrophysical Observatory in Cambridge, Mass. and Mt. Hopkins, Ariz.; Cooper-Hewitt Museum in New York City; and Smithsonian Tropical Research Institute in Panama. Excludes Hirshhorn Museum and Sculpture Garden, Woodrow Wilson International Center for Scholars, Freer Gallery of Art, National Museum of American Art, and National Portrait Gallery.
	(1-3)	Includes microforms in volume equivalents.
SOUTH CAROLINA	(1)	1982-83 figure revised.
SOUTHERN CALIF.		Includes the Andrus Gerontology Center Library, the Hancock Library of Biology and Oceanography, and the Arnold Schöenberg Institute Library. Does not include the Safety and Systems Management Library.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
SOUTHERN CALIF. (con't)	(1)	1982-83 figure revised to include Arnold Schöenberg Institute Library.
SOUTHERN ILLINOIS		Excludes Center for Dewey Studies; Papers of Ulysses S. Grant; Instructional Development, Research and Evaluation Faculty of Learning Resources Service; School of Medicine Library (Springfield). Includes the School of Law Library, which is not administratively part of Library Affairs.
	(18)	Includes \$641,598 in grant and special funds.
STANFORD	(1)	1982-83 figure revised.
	(12)	Includes 9 FTE paid from grant and contract funds.
	(12-18)	Figures are as of August 31, 1984.
	(18)	Includes \$510,970 in grant and contract funds.
	(22)	Excludes \$250,000 for phased purchase of Barchas Collection
SUNY, ALBANY		Includes the Graduate Library of Public Affairs and Policy (formerly Hawley Library) on East campus.
	(12)	Includes \$11,421 in grant funds.
	(16)	Excludes federal work study allocations.
	(17)	Includes \$279,511 from other sources (i.e., revenue for services, grants, chargebacks).
	(12-18)	Figures are as of March 31, 1984.
SUNY, BUFFALO		Figures are as of March 31, 1984.
	(19,20)	Includes 5 professional and 6 nonprofessional FTE on special projects/grants.
SUNY, STONY BROOK		Figures are as of March 31, 1984.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
SUNY, STONY BROOK (con't)	(16)	Includes \$57,172 from Income Fund Reimbursable account and \$1,150 from Research Grant.
	(17)	Includes \$20,982 from Income Fund Reimbursable Account.
SYRACUSE		Excludes Utica College.
	(16)	Includes \$98,200 for Academic Computer Center staff.
	(17)	Includes Academic Computer Center computer rentals, collection insurance, CRL dues, as well as regular operating expenditures.
	(19)	Includes 3.5 FTE in Academic Computer Center. Ph.D.'s awarded include all doctoral degrees.
TEMPLE		Excludes Journalism, Health, Physical Education, Recreation, and Dance Libraries and other departmental collections.
	(15)	Includes \$28,638 in grant and endowment funds.
	(16)	Includes \$39,871 in grant and endowment funds and \$61,740 in work study funds.
	(17)	Includes \$21,474 in grant and endowment funds.
TENNESSEE	(5)	1982-83 figure revised. Includes government document serials for the first time this year.
	(19)	Includes 1 FTE paid from grants funds. Ph.D. count includes Space Institute.
TEXAS		Figures are as of August 31, 1984 and include the General Libraries, Law Library, and the Humanities Research Center.
	(15)	Includes expenditures of \$3,560,082 by

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
TEXAS (con't)		General Libraries, \$594,311 by Law Library, and \$2,500,000 by Humanities Research Center.
	(16)	Includes Title II-C and federal work study funds.
	(22)	Includes staff hired on grant funds.
TEXAS A & M		All figures are as of August 31, 1984.
	(1)	1982-83 figure revised to include Medical Science Library holdings.
TORONTO		Includes only the libraries of the university within the President's budget; excludes the libraries of the federated and affiliated institutions.
	(1)	Includes government documents, some of which are cataloged.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$5,635,723; (13) \$2,546,483; (14) \$297,377; (15) \$5,933,100; (16) \$15,214,590; (17) \$740,049; (18) \$21,887,739.
TULANE		Includes Delta Primate Center in Covington, La.
	(4)	Excludes holdings for Medical Library.
	(16)	Includes some fringe benefits.
	(19,20)	Includes .4 FTE professional and .9 FTE nonprofessional paid from grant funds.
VANDERBILT	(6-11)	Excludes Law Library.
VIRGINIA	(5,13)	Excludes monographic series which were included in previous years.
	(6-11)	Figures include Law and Health Sciences for the first time this year.
VIRGINIA POLY.		Includes "open reserve" collection of approximately 10,000 volumes at Northern Virginia Graduate Center in Falls Church, Virginia.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
WASHINGTON	(1)	1982-83 figure revised.
	(5)	Includes only government document serials that are cataloged.
	(19-22)	Includes 5 FTE professionals, 7.5 FTE nonprofessionals, 6 FTE students on special projects and grants.
WASHINGTON STATE	(5)	Includes government document serials for the first time this year.
	(16-18)	Includes expenditures for Instructional Media Services.
	(22)	Includes staff for Instructional Media Services.
WATERLOO		Figures as of April 30, 1984.
	(1)	Includes cataloged government documents.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$2,291,211; (13) N/A; (14) \$81,783; (15) \$2,372,994; (16) \$4,170,923; (17) \$419,818; (18) \$6,963,735.
WAYNE STATE	(1-3)	Includes counts from July 1983 to September 1984 due to change in fiscal year reporting period.
WESTERN ONTARIO		Figures are as of April 30, 1984.
		Excludes libraries of 3 affiliated colleges, School of Library and Information Science, and departmental libraries.
	(1)	1982-83 figure revised.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$3,131,177; (13) \$1,571,477; (14) \$146,763; (15) \$3,277,940; (16) \$5,537,446; (17) \$331,291; (18) \$9,146,677.
WISCONSIN		Ph.D. and enrollment figures reported for 1982-83 were incorrect.

<u>Institution</u>	<u>Category from Main Table</u>	<u>Notes</u>
YALE		Includes Lewis-Walpole Library in Farmington, Connecticut.
YORK		All figures are as of April 30, 1984.
		Includes Glendon campus.
	(12)	Includes \$31,394 in gifts, \$40,857 in grants, and \$97,218 in trusts (reported in Canadian dollars).
	(17)	Includes special Provincial Grant for equipment of \$130,000 (Canadian).
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$2,496,938; (13) \$1,076,416; (14) \$159,684; (15) \$2,656,622; (16) \$4,450,662; (17) \$1,090,877; (18) \$8,198,161.
		Statistical information on enrollments is in fiscal full-time equivalents.

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Page 12 - Northwestern (code no. 63)
Column 4 - 1,399,759

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